



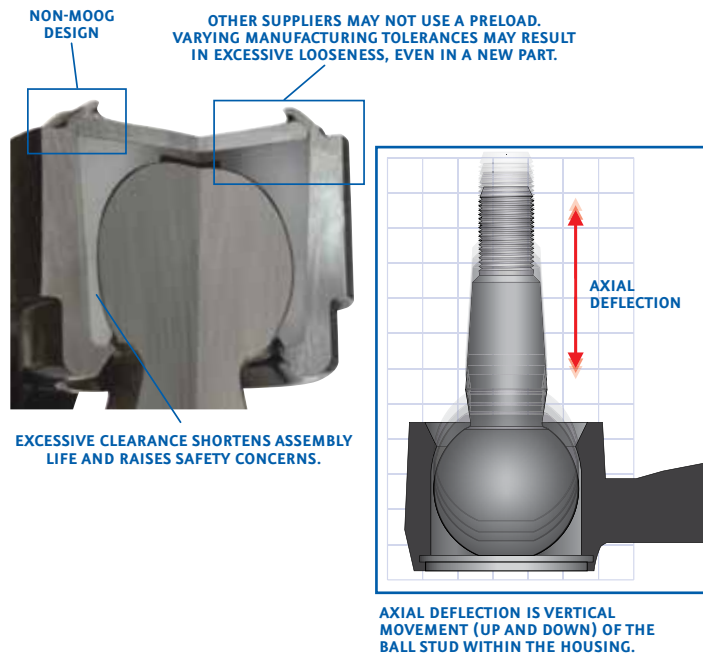
**MOOG® EXCLUSIVE BELLEVILLE WASHER DESIGN BEARING PRELOAD**

**THE PROBLEM SOLVER®**

**PROBLEM:**

**Shortened Service Life/  
Loose Steering**

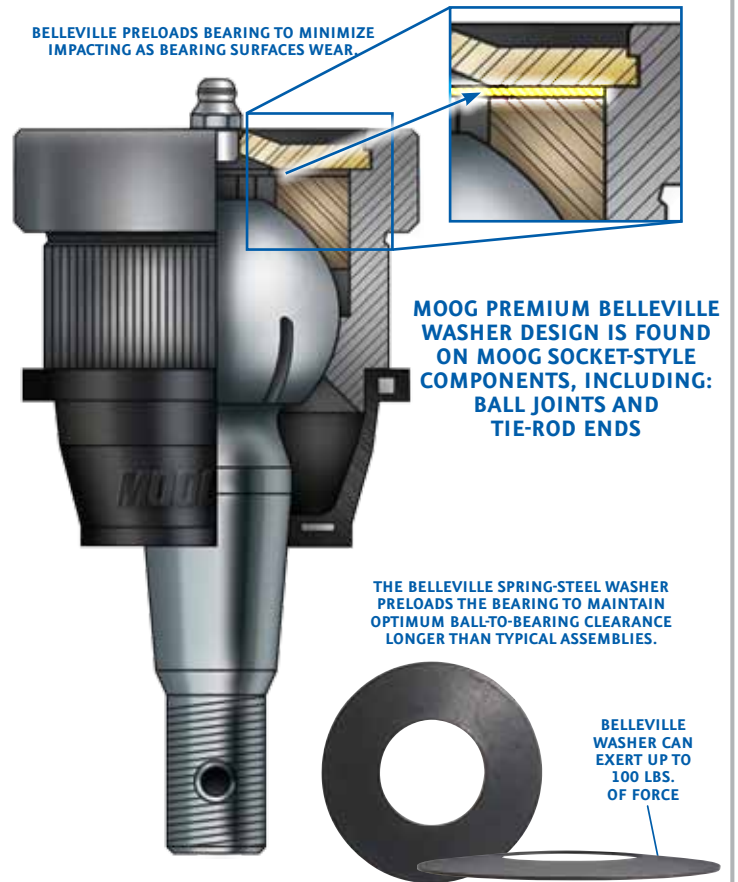
- Manufacturing tolerance variations may result in excessive clearances in the stud and housing, even when new.
- This excessive clearance results in less-precise handling, safety concerns and shorter assembly life.
- Without a bearing preload provision, larger clearances and increased axial movement can occur at lower mileages.



**SOLUTION:**

**MOOG® Premium Belleville Washer Design**

- Inside the assembly, the MOOG Belleville spring washer design maintains a consistent preload force between the patented domed cover plate and the top of the bearing.
- As clearances inevitably increase with mileage, the Belleville washer's preload force of up to 100 ft/lbs. against the bearing maintains proper stud ball/bearing alignment and clearances for more consistent operation for the life of the part.



For parts lookup, visit [www.FMe-cat.com](http://www.FMe-cat.com) tech line: 1-800-325-8886

[moogproblemsolver.com](http://moogproblemsolver.com)

