BULLETIN: 27017-R

MOOG STEERING & SUSPENSION

NASCAR PERFORMANCE

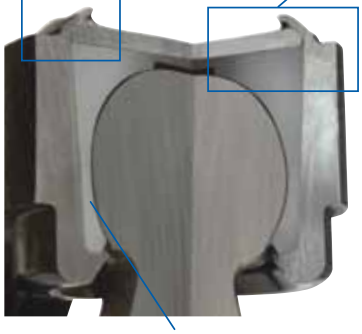
MOOG® EXCLUSIVE BELLEVILLE WASHER DESIGN BEARING PRELOAD

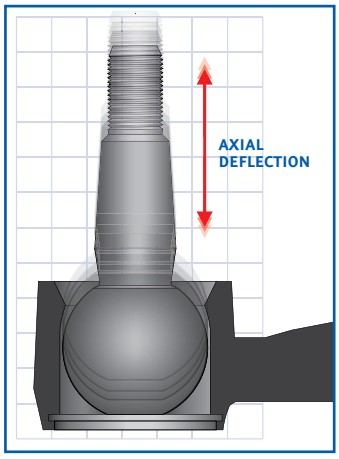
THE PROBLEM SOLVER®

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.





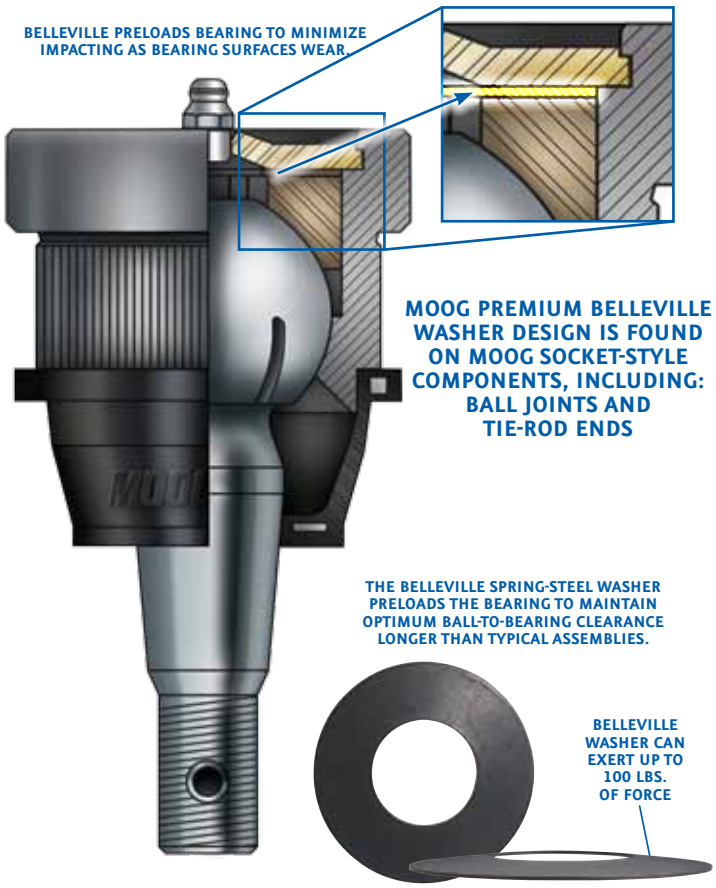
AXIAL DEFLECTION IS VERTICAL MOVEMENT (UP AND DOWN) OF THE BALL STUD WITHIN THE HOUSING.

OTHER SUPPLIERS MAY USE AN OVER-STRESSED BELLEVILLE THAT SHATTERS AFTER CYCLIC LOADING, RESULTING IN EXCESSIVE LOOSENESS.

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.



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FEDERAL-MOGUL MOTORPARTS

Learn more about performance suspension parts we have.