Air Spring Performance Requirements

Geographical Location / Environmental Information

1. Is this a lift spring application (Yes, No)
   a. If YES, Maximum Lift Height (in, mm) =
   b. If YES, Load at Maximum Lift Height (lb, N) =

2. Air Spring Design Height (in, mm) =

3. Air Spring Design Load (lb, N) =

4. Air Spring Operating Pressure (psig, bar) =

5. Air Spring Rebound Travel (in, mm) =

6. Air Spring Jounce Travel (in, mm) =

7. Air Spring Clearance:
   a. Max. Spring Diameter (in, mm) =
   b. Can rubber roll past top of upper bead plate? (Yes, No)
   c. Can rubber roll past bottom of lower bead plate? (Yes, No)

8. Maximum Pressure Available (psig, bar) =

9. Axle Load (lbf, N):
   a. Empty =
   b. Design =
   c. Full Load =

10. Lever Arm Ratio
    a. (in, mm) =
    b. (in, mm) =
    c. (in, mm) =
11. Internal Bumper Required
   a. Bumper Contact Angle (5° max) =
   b. Bumper Contact Height (in, mm) =

12. Jounce Offset at bumper contact height (in, mm) =

13. Rebound Offset at maximum rebound height (in, mm) =

14. Maximum Rebound Height (in, mm) =

15. Please include suspension drawing

16. Upper Bead Plate Support Area

17. Lower Bead Plate Support Area

80% BEAD PLATE SUPPORT AREA RECOMMENDED

18. Customer Air Spring Drawing
   If yes, please attach = (Yes / No)

19. Production Start Date = __________

20. Prototype required
   a. Date required =
   b. Quantity required = (Yes / No)
21. Upper Bead Plate Fastener Detail

Firestone bead plate number (if known) =

“Same As” Part number =

22. Lower Bead Plate Fastener Detail

Firestone bead plate number (if known) =

“Same As” Part number =

23. Bead Plate Salt Spray Requirement (96 hour standard) =

24. PPAP Required = (Yes / No)
   a. PPAP Level Required =
   b. Please attach PPAP requirements =

25. Packaging Requirements = (Firestone Bulk Pack Standard)

26. Special labeling requirements = (Yes / No)
   If yes, please attach

27. Test data required = (Yes / No)
   □ Load Deflection
   □ Burst
   □ Other __________________________

Hardware Key

- Bolt or Stud 1/2-13
- Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons
- Air Inlet 1/4 N.P.T.
- No alignment specified-center stud mounting is standard
- Combination Stud/Air Inlet Stud Outside Thread is 3/4-16
- Studs Inside Thread (Air Inlet) is 1/4 N.P.T.