

FOR INFORMATION:

FRONT SHOCK DAMPER SETTINGS.

Increased Bump Load.

Retailers are advised that a modified front shock damper setting is available for incorporation on cars which are reported as being subject to excessive 'front end lightness' or to the bump buffer hitting the front suspension bump stops when travelling at speed over rough roads.

The damping effect of each front damper unit is controlled by two spring loaded valves situated inside the damper casing; the bump valve, set at 65-70 lbs.(32 kilos) affects the damping on the upward movement of the front suspension, and the downward or rebound action is controlled by the rebound valve which is set at 125-130 lbs.(59 kilos).

This Bulletin describes the procedure for raising the loading of the bump valve by replacing the existing bump valve spring with a new spring of increased strength, raising the bump loadings to 95-105 lbs., the rebound loading remaining unaffected. The part number of the spring giving the 95-105 lbs. bump loading is RF.5022, these are obtainable from Hythe Road Service Depot.

It is important to note that the bump valve cap of the L.H. damper is at the FRONT of the damper casing, whereas on the R.H. damper, the bump valve cap is at the REAR. In each case, the rebound valve cap is on the opposite side of the casing.

Removal and replacement of the valve caps and springs, also the pumping action of the damper arm required to bleed the damper oil system of air, can be carried out easily and more efficiently if the damper unit is removed from the chassis frame as described in the procedure.

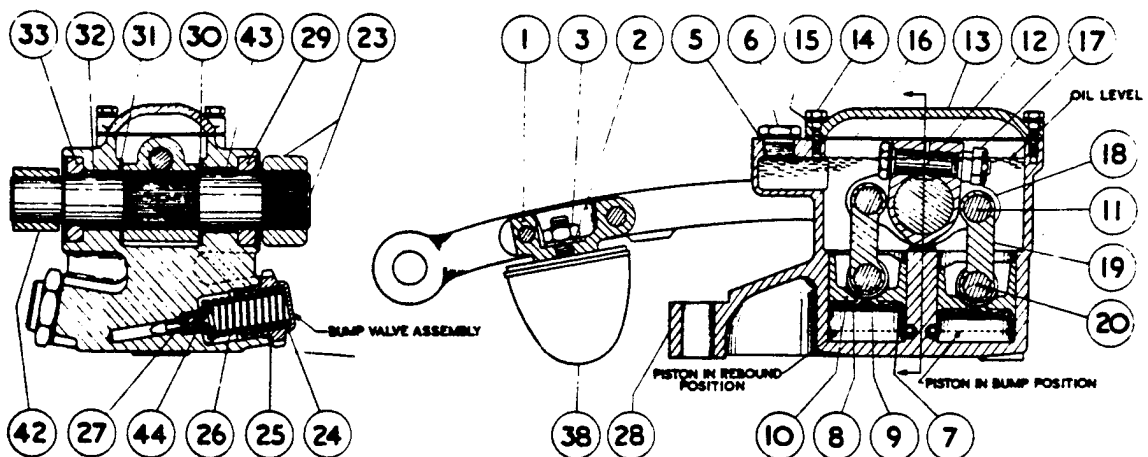
Bulletin

MODEL: BENTLEY MARK VI

PROCEDURE:

- 1 -

1. Jack up the front of the car - jack under, and in the centre of the front 'pan'. Place wood blocks under the outer ends of the lower triangle lever and lower the weight of the car on to the wood blocks. The weight of the car must not be taken off the wood blocks until the job is completed, otherwise the road spring may become displaced.
2. Remove the front wheels. Remove the split pin, nut and the bolt from the Silentbloc bearing where the upper triangle levers form the joint at the top of the yoke. On removal of the bolt, the hub assembly will pivot on the lower joint of the yoke, and fall outwards unless it is prevented from doing so. A wood block of suitable height should be positioned on which the hub may rest, otherwise the weight will be taken by the flexible pipes of the hydraulic brake system.
3. Remove the three bolts and nuts securing the damper to the frame. On later cars, the outer fixing bolt is fitted the reverse way round, but provision is made in the bump stop bracket for a flat or ring spanner to be used for removal of the nut. Remove the damper and clean the casing, especially round the valve caps and the filler plug (6 in the attached sectional views of the front damper.)



- | | |
|-------------------------------------|--|
| 1. Buffer Support. | 19. Connecting Link. |
| 2. Spring Washer. | 20. Pin-Piston & Connecting Link. |
| 3. Nut. | 23. Triangle Lever(upper) & Main Shaft Assembly. |
| 5. Plain Washer(Alum). | 24. Valve Cap. |
| 6. Filler Plug. | 25. Plain Washer(Alum). |
| 7. Spring Ring-Replenishing Valve. | 26. Spring-Bump Valve. |
| 8. Dished Plate-Replenishing Valve. | 27. Valve with bleed hole. |
| 9. Replenishing Valve Assembly. | 28. Main Casing. |
| 10. Piston. | 29. Gland Rubber-large-Main Shaft. |
| 11. Pin-Rocker & Connecting Link. | 30. Bearing Washer-in-large-Main Shaft. |
| 12. Bolt(Spherical head)Rocker. | 31. Bearing Washer-small-Main Shaft, |
| 13. Top Cover-Damper Casing. | 32. Bearing Bush-small-Main Shaft. |
| 14. Setscrew-Top Cover. | 33. Gland Rubber-small-Main Shaft. |
| 15. Spring Washer-Top Cover. | 38. Buffer-upper triangle levers. |
| 16. Joint Washer-Top Cover. | 42. Triangle Lever(upper). |
| 17. Nut(Spherical Seat). | 43. Bearing Bush-large-Main Shaft. |
| 18. Rocker. | |
| 44. Valve Seating Bush. | |

ALL COMMUNICATIONS SHOULD BE ADDRESSED TO
BENTLEY MOTORS (1931) LTD. SERVICE STATION, MYTHE ROAD, WILLESDEN, LONDON, N.W.10