



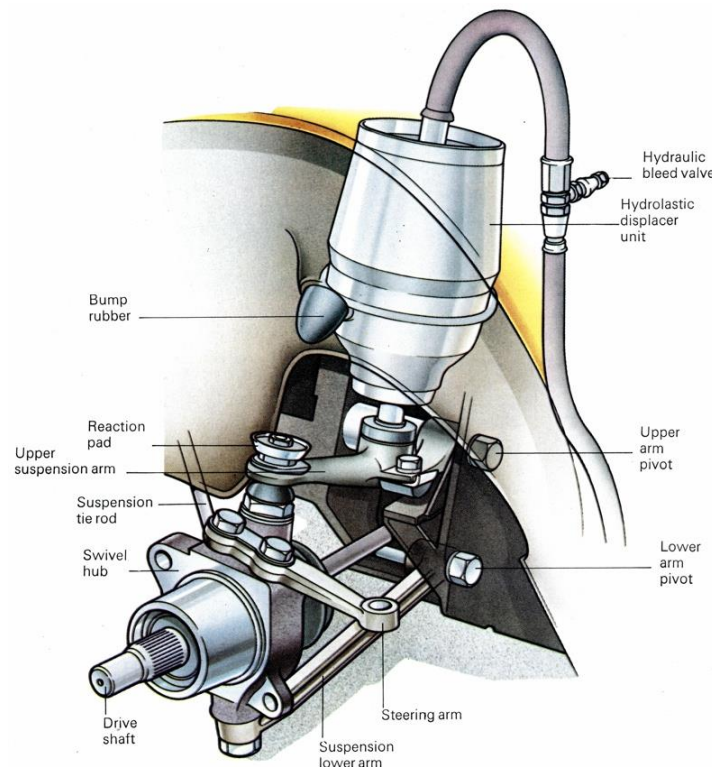
# TECHNICAL BULLETIN HYDROLASTIC SUSPENSION FLUID

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## SUSPENSION FLUID FOR MORRIS / AUSTIN / LEYLAND / BMC / WOLESLEY VEHICLES

Suspension Fluid. Hydrolastic suspension is a "fluid" system that was used on a number of Morris 1100 derivatives, Austin & Morris 1800s, Minis between 1964 and 1971 and Wolseley 18/85s as well as MG/F's produced from 1995 to 2002.

The system used fluid displacer units fitted to each wheel. The front and rear units were connected so that the front and rear nearside form one connected pair and the front and rear offside form another connected pair. The units were made from sheet-steel and rubber. Each unit consisted of an upper and lower chamber housing containing a diaphragm, reinforced by nylon, and a compressed conical rubber spring. The units were filled with a mixture of alcohol, water and additives to prevent corrosion. A valve in the top of the fluid separating chamber replaced the conventional damper of other systems. When either wheel on one side of the car hit a bump in the road, the fluid was displaced and caused the unit on the other wheel to react. In this way a bump at the front made the rear of the car rise to a corresponding height and the car always remained level.



As there is not a particular dedicated product replacement for the original fluid available off the shelf in most outlets, an approximate product for this application can be made by mixing - 33% by volume Anti Freeze Anti Boil [Penrite 7 Year 450,000KM Green Coolant](#) with 67% by volume distilled water.

An easier alternative is to purchase [Penrite 350,00km Green Premix](#) which is already a mixture of 33% Anti Freeze Anti Boil and distilled water.

[Click Here](#) to visit the Penrite Pre-70's product guide.

[Click Here](#) to visit the Penrite Recommendation Guide, which will ensure you receive the correct oil for your vehicle



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