



## Suspension Systems

Modifying a car suspension system can be likened to walking a tightrope. Enthusiastic drivers will want the ride to be firm, whilst still offering reasonable comfort. The chassis must perform with all of the standard cars' positive attributes whilst offering a more direct handling stance and improve all of the dynamic criteria.



**Sport Springs**

The first tool in the suspension tuners' armoury is the road springs themselves. They dictate the primary stiffness of the suspension, and control the ride height of the car at front and rear axles.

They also have a significant impact on the roll stiffness and aerodynamic stability as secondary factors. It is clear therefore that this starting point will be critical in its influence over every chassis tuning component.

Hartge provide sets of sport springs which combine the best ride quality with improved handling and stability. We find that in many cases, customers feel that there is no need make any additional changes.

For the most serious of drivers, the demands that are placed upon the chassis are much higher. In these cases, we offer a complete suspension kit consisting of tuned gas assisted shock absorbers with matched suspension springs. This controls the movement of the car body to a significantly greater degree by stiffening and controlling the reaction from the spring after a bump, allowing greater control over the car in the most demanding situations. All kits have been tested on UK roads, and do not significantly affect ride quality.

Some applications are available with adjustable dampers, allowing personal preferences to be accommodated.



**Adjustable Suspension Kit**

Hartge offer large diameter adjustable anti-roll stabiliser bars and low modulus chassis bushes. This system enables the driver to trim the characteristics of the car toward the desired oversteer, understeer or neutral cornering characteristic. Whilst this final option is normally reserved for on track driving, many of our most experienced customers feel the benefits of the complete sports chassis even during road driving.



**Adjustable anti-roll bars**