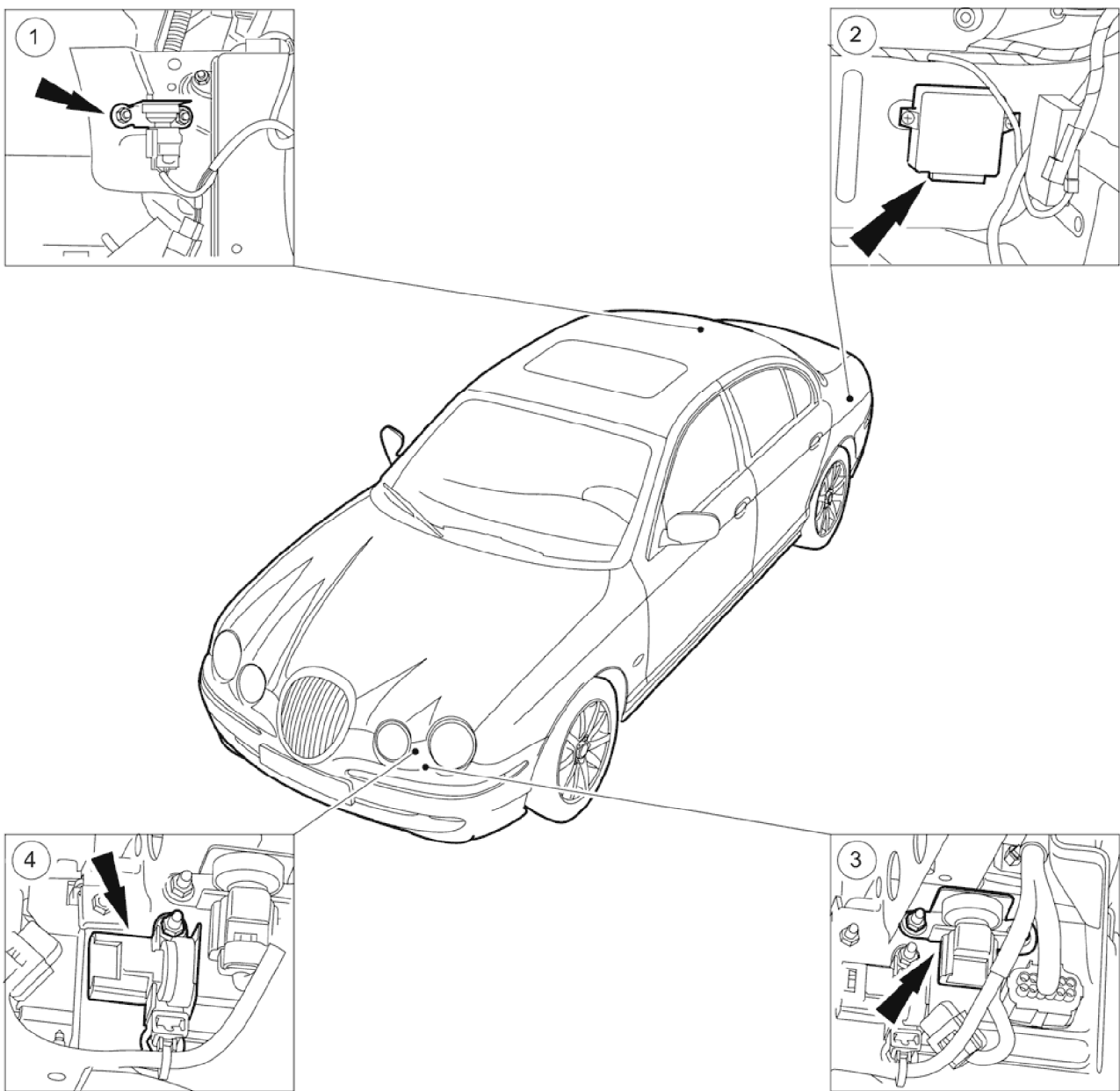


Vehicle Dynamic Suspension



E31301

Item	Description
1	Rear vertical accelerometer
2	Adaptive damping module
3	Front vertical accelerometer
4	Accelerometer

The vehicle dynamic suspension system is designed to control excessive body motions in bounce, pitch and roll while maintaining/improving ride and feel. The system controls the settings of the four vehicle dampers between firm and soft based on the road conditions and driver inputs.

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The system uses the three accelerometers, vehicle speed and the brake switch status to calculate the vehicle motion. The vehicle speed and brake status information is passed to the module on the SCP network. The module then calculates the bounce, pitch and roll of the vehicle and adjusts the dampers to change the ride state. This will only occur at speeds over 3 mph (4 kph).