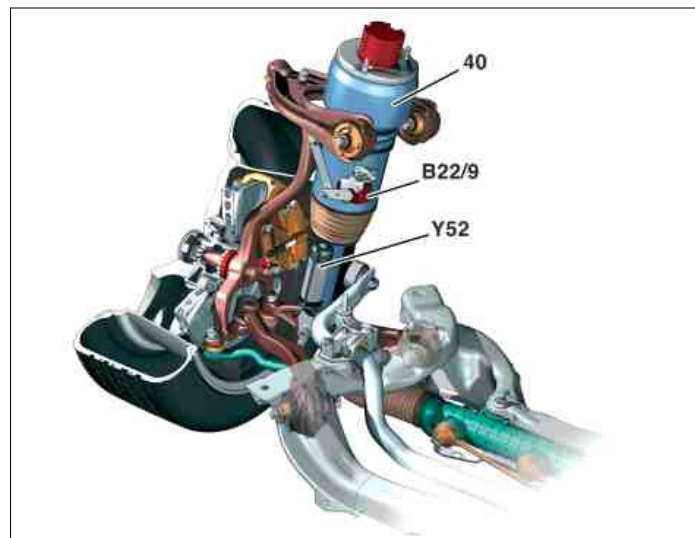


Front level sensors, shown on right front level sensor (B22/9)

B22/9 Right front level sensor

i A level sensor is installed at both the left front axle and the right front axle.

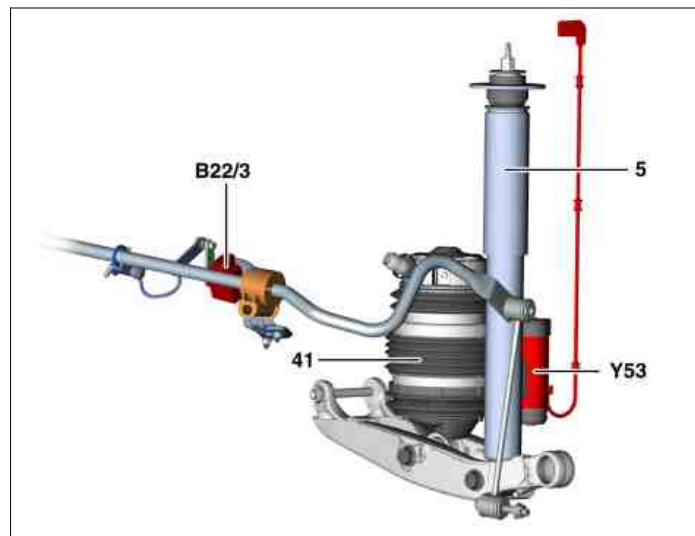


P32.22-2279-81

Rear level sensors

B22/3 Rear axle level sensor

i The system features just one level sensor at the rear axle torsion bar.



P32.22-2125-81

Task

B22/3 Rear axle level sensor

Determine the current vehicle level at the front and rear axles. Pass the values to the AIRmatic with ADS control unit (N51).



P32.22-2260-01

Design

2 sensors in a single housing (redundant design).

Function

A Signal 1
B Signal 2

U = voltage (level sensor output signal)
 α = Deflection angle (of level sensor)

The AIRmatic with ADS control unit (N51) supplies the level sensor with a rated voltage of 5 V. The level sensor then outputs two opposing variable voltage signals depending on the current level of the vehicle.

If the vehicle level changes, one voltage signal rises linearly while the voltage of the opposing signal decreases linearly. At the normal level, the voltage of both signals is approx. 2.5 V.

i Signal redundancy

If one signal fails, the system uses the signal of the other sensor.

