

Vehicle Level Notes

Wake-up Function

- if level is >30mm lower than normal (0mm +/-10) it will raise to normal level (if reservoir pressure >11 bar)
- if level is >65mm lower than normal, it will be raised even with a reservoir pressure of <11 bar by the compressor (prerequisite battery voltage >12.5v) to -63mm (critical level)
- if level is >10mm higher than normal, it will be lowered to normal

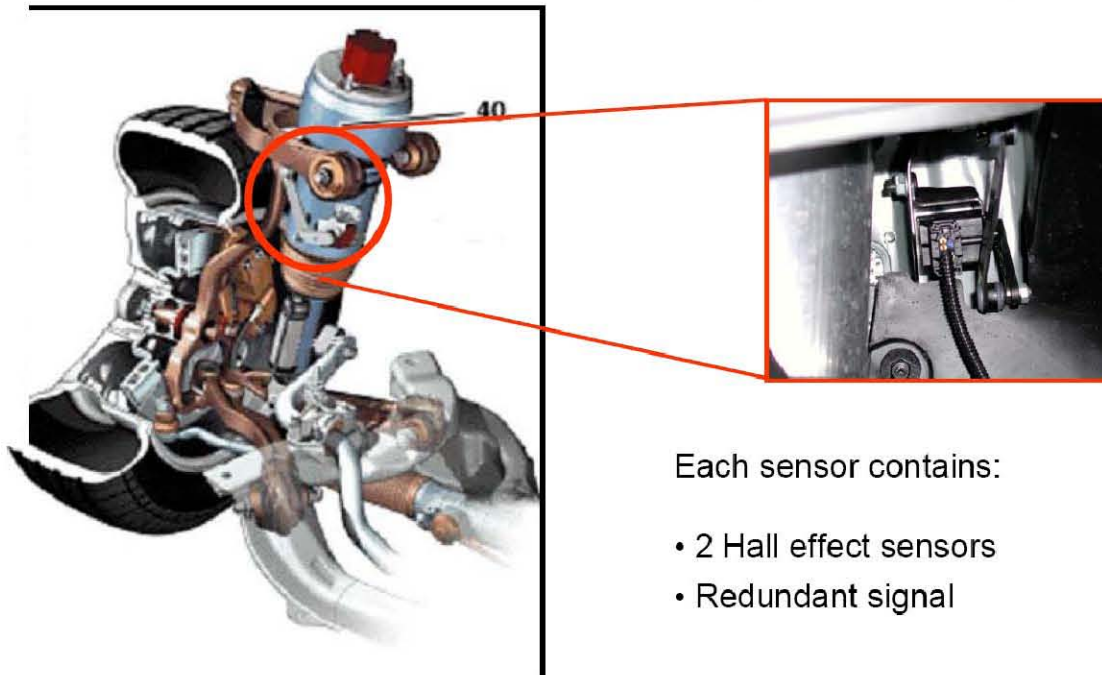
Normal Function (engine running)

- level will be corrected if level deviates >10mm after opening a door or trunk
- while driving, the vehicle level will adjust if deviation >20mm
- while driving, every 15 minutes the level is adjusted to within +/- 10mm of normal ride height

Locking Function

- if wheels are unloaded when vehicle stationary, strut valves remain closed

Front Level Sensors (B22/8,9)

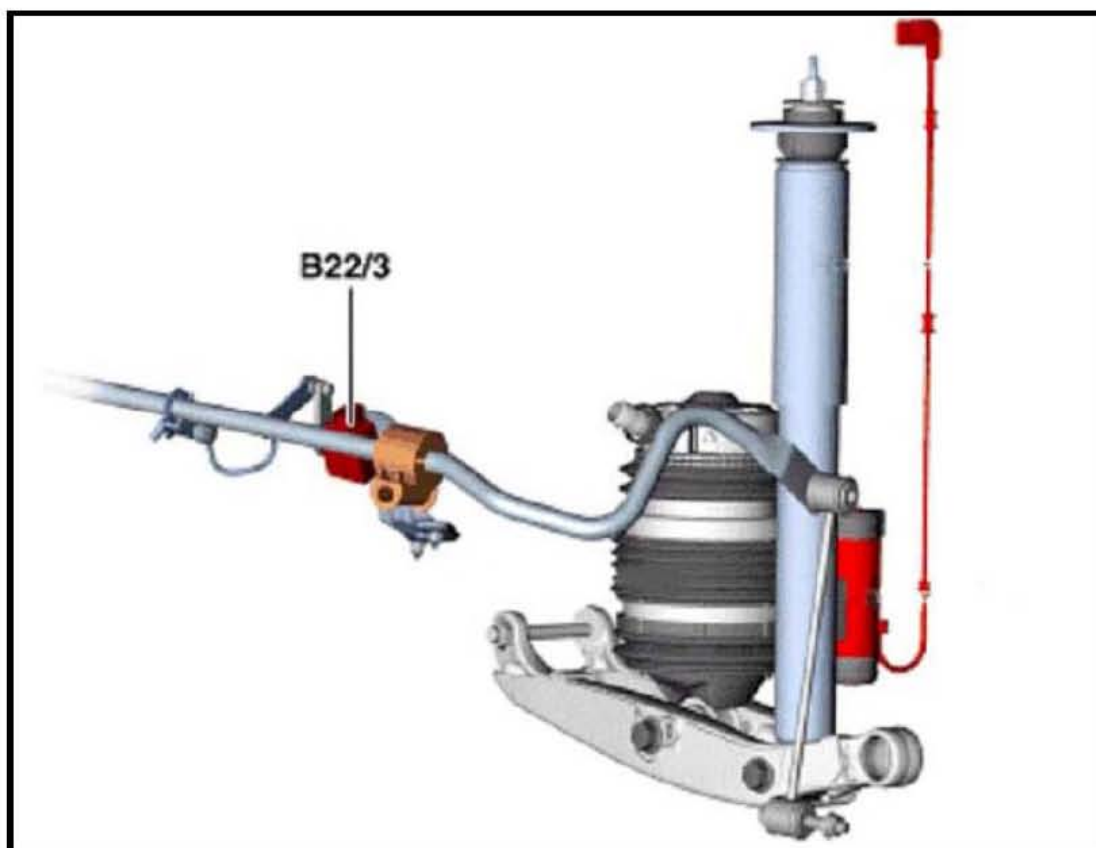


Each sensor contains:

- 2 Hall effect sensors
- Redundant signal

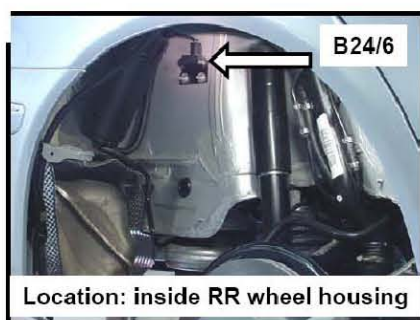
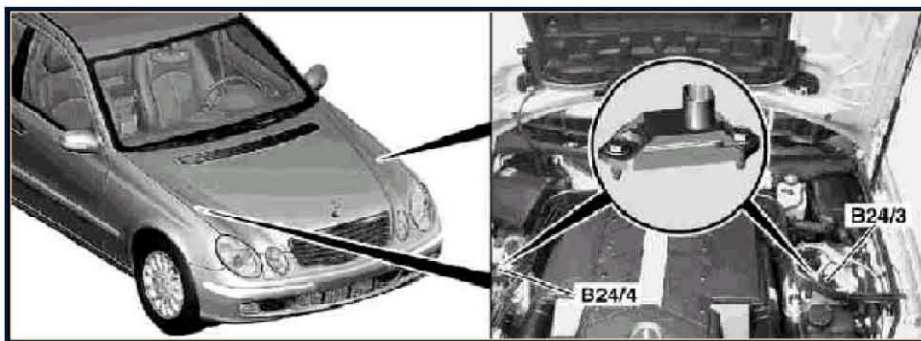
Location: Front upper control arm

Rear Level Sensor (B22/3)



Location: Rear stabilizer bar

Acceleration Sensors B24/3,4,



- Measures vertical oscillations of the chassis
- Translates mechanical movements into voltage signals
- Influences ADS II dampening functions

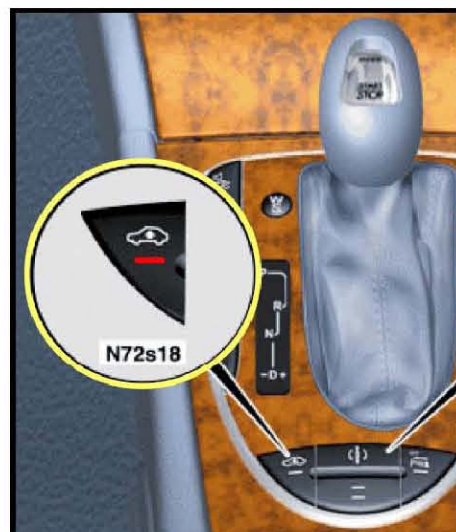
Level Adjustment Switch (N72s18)

Raises the vehicle above normal level

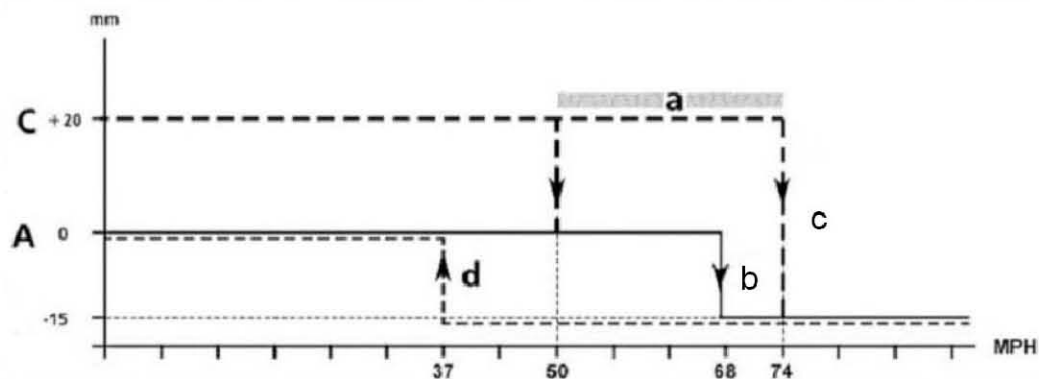
Wired to LCP (N72)

Input to SAS (N51) via CAN B

N72 controls LED activation



Level Adjustment Parameters



A - Normal ride height up to 68 mph, then lowers (b) to -15mm

d - vehicle height will rise to normal height at 37 mph

C - Raised ride height (+20mm).

a - lowers to -15mm if vehicle speed between 50 and 74 mph for 5 minutes

c - lowers to -15mm if vehicle speed greater than 74 mph

Note: Raised height cancelled once vehicle lowered.