

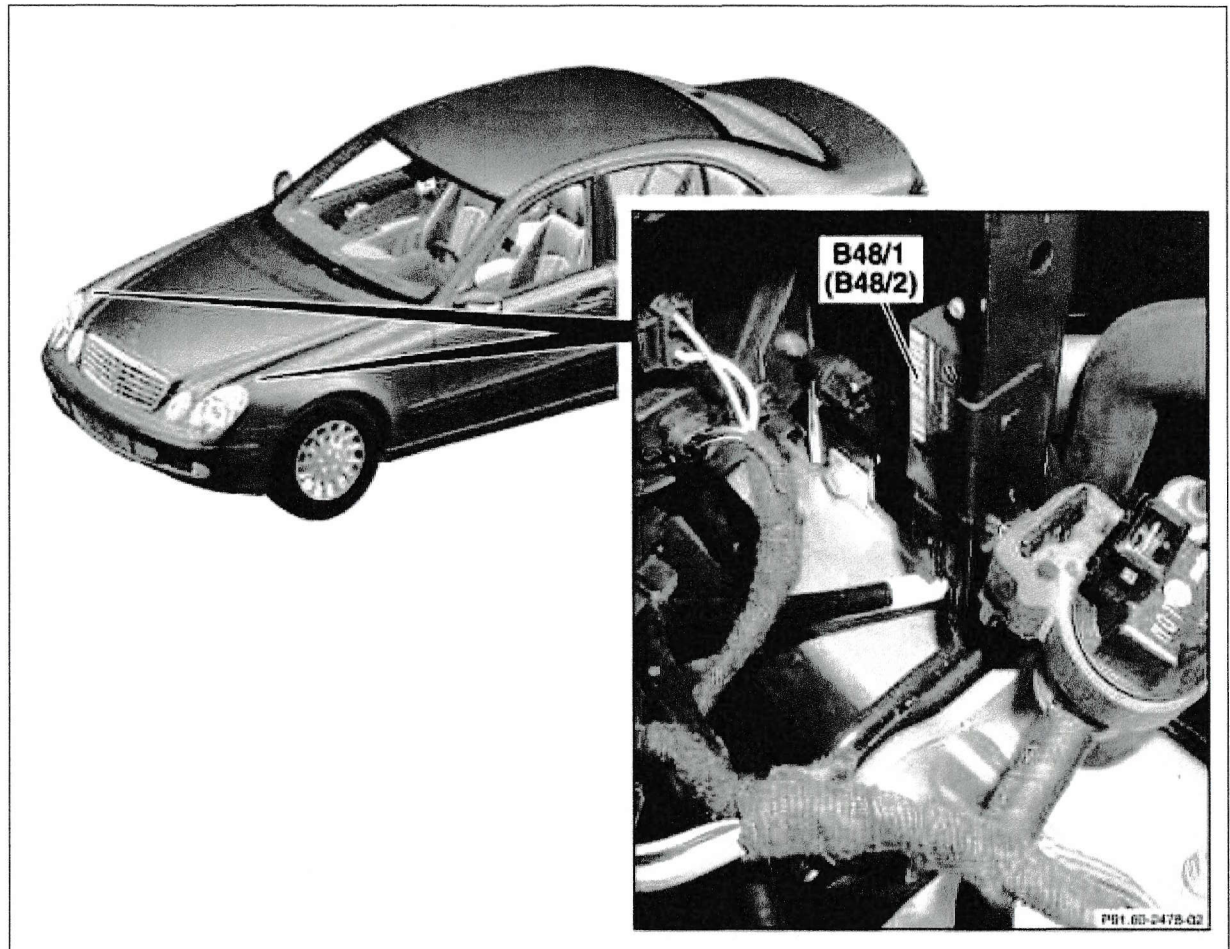
MODELS 211.0/ 2**Shown on model 211.0**

B48/1 Driver-side frontal acceleration sensor

B48/2 Passenger-side frontal acceleration sensor

Location

The frontal acceleration sensors are located on the front module.



P91.60-2479-06

Task

- The frontal acceleration sensor determine the acceleration value of the vehicle front for the left or the right side of the vehicle. The restraint systems control unit (N2/7) uses these values to decide, whether or not the emergency tensioning retractors or the airbags are triggered. In the event of a failure of the frontal acceleration sensor, the system continues to evaluate the signal of the frontal acceleration sensor that is still working.
- After a successful self-test of the frontal acceleration sensor, the success is confirmed by transmitting a signal to the restraint systems control unit.
- If the self-test fails four times, a defective frontal acceleration sensor is signaled.
- Upon request of the restraint systems control unit, the measuring range and the sensitivity of the frontal acceleration sensors are transmitted, and it is checked whether they match the programmed equipment. The production data can be output via STAR DIAGNOSIS.
- The acceleration values are transmitted periodically as a digital value.