

MODEL 216.3

with CODE (409) Left/right front multicontour seat
as of model year 2009

/YoM 08

MODEL 221.0 /1

with CODE (409) Left/right front multicontour seat
as of model year 2009 up to 2010

/YoM 08 up to YoM 09

MODEL 221.0 /1

with CODE (406) Rear multicontour seat
as of model year 2009

/YoM 08

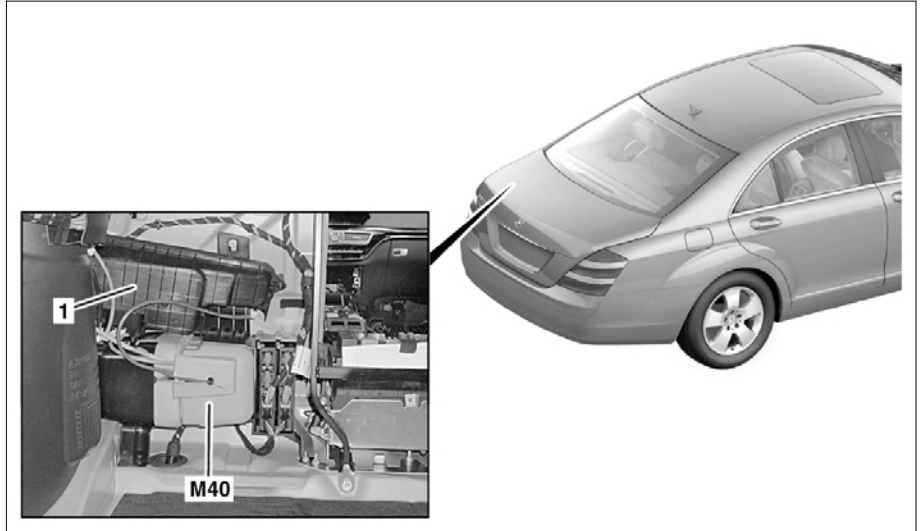
Shown on model 221.0 model year 2009 /
YoM 08

1 Reservoir

M40 Multicontour seat pneumatic pump

Location

The pneumatic pump for multicontour seat (M40) is located under the reservoir on the left-hand side of the trunk in the direction of travel at the front of the trunk behind the trim.



P91.25-2301-05

Tasks

- Compressed air supply of multicontour seat system
- Compressed air supply for retractable rear head restraints (RHR [KAF]) system (only vehicles without code (223) Rear bench seat with electrically adjustable outer seats with PRE-SAFE positioning function for outer seats and outer head restraints)
- Pressure monitoring of the reservoir by means of a sensor
- Leakage detection of pneumatic systems
- Automatic shut off of compressed air supply after 60 sec continuous operation of pneumatic pump for the multicontour seat

- Overpressure run of air-operated system, for draining compression moisture in composite pressure vessel through a pressure relief valve mounted on the container
- Actuation of the solenoid valve to expel compression moisture in the composite pressure vessel
- Compressed air supply solenoid switch on/off

These are grouped as follows:

- **Reading in of sensors and signals**
- **Evaluating input factors**
- **Actuation of components**

Reading in of sensors and signals

These input factors are read in via the following connections:

- **Direct line**
- **Interior CAN (CAN B)**

Direct line

- Circuit 30
- Tml. 31

The following sensors are read in via direct internal lines:

- Pressure sensor in pneumatic pump for multicontour seat

Interior CAN (CAN B)

- Signals from left front multicontour backrest control unit (N32/15)
- Signals from right front multicontour backrest control unit (N32/16)
- Signals from left rear multicontour backrest control unit (N32/20) (model 221 only)
- Signals from right rear multicontour backrest control unit (N32/21) (model 221 only)
- Signals from rear control unit (N22/6) (model 216 only)
- Signals from left rear door control unit (N69/3) (model 221 only)
- Signals from left rear door control unit (N69/4) (model 221 only)

Evaluation of input factors

The read in input factors are evaluated by the pneumatic pump for multicontour seat. Actuation of the electric motor in the pneumatic pump for multicontour seat occurs accordingly.

Actuation of components

The actuation of the components takes place via the following connections:

- **Direct internal line**


Variants

- None

Direct internal line

- Actuation of the solenoid valve to expel compression moisture in the composite pressure vessel

i No components are actuated via the interior CAN by the pneumatic pump for multicontour seat. Only information on further processing steps for other control units is sent to the interior CAN.

	Wiring diagram / rear SAM control unit with fuse and relay module (N10/2)	MODEL 221 Sheet 2 Model 216 Sheet 2	PE54.21-P-2108-99SAB PE54.21-P-2108-99CAB
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