

#### Pneumatic Test Program – Test (OSB)

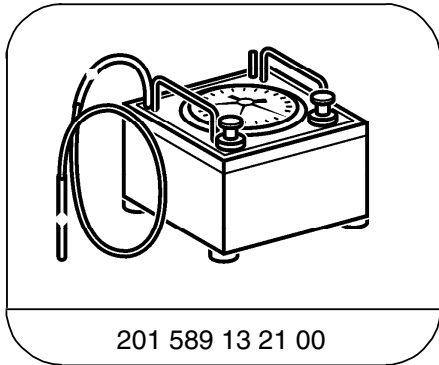
Preliminary work:

PSE control module voltage supply ..... 23 PSE ⇒ 1.0, 2.0  
 PSE Control Module Test ..... 32 PSE

#### Data (mbar)

Test Procedure	Permissible deviation
Allowable system leakage at 600 mbar pressure in 1 minute.	30 mbar

#### Special Tools



201 589 13 21 00

Tester

Pneumatic Test Program – Test (OSB)

A. Entire system

Preparation for Test:

Vehicles up to approx. 12/93:

1. Disconnect pneumatic multiple connector from PSE control module.
2. Connect tester to bottom side of pneumatic multiple connector at **PÜ** (OSB) using connector 129 805 04 44.

Vehicles as of approx. 01/94:

1. Disconnect **grey** OSB pneumatic line with socket from PSE control module.
2. Connect tester to disconnected pneumatic line using connector 129 805 04 44.

Parts Required for Test:

1	Connector	129 805 04 44
2	Connection hose, 50 mm long	007 997 61 82
1	Pneumatic line, 1 m long	000 158 14 35

Note:

The connections on the PSE control module and pneumatic multiple connector are marked with their German acronyms. In other words:  
**ZV** (German) = **CL** (English),  
**SRU** (German) = **MVA** (English),  
**OSL** (German) = **OSB** (English).

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	<b>Complete multi-contour backrest system pressurized in each of the 3 height positions with maximum side bolster setting</b>	<b>Yellow</b> connector on tester. Connector <b>PÜ</b> on bottom side of multiple connector.	Apply 600 mbar pressure in each of the 3 height settings. Set adjuster to position 5, Side bolster rocker switch to maximum.	Pressure loss in each height setting 30 mbar in 1 minute.	33 PSE ⇒ 1.0, 32 ⇒ 2.0, 3.0

Pneumatic Test Program – Test (OSB)

B. Line with pressure reservoir/line with control valve

Preparation for Test:

Vehicles up to approx. 12/93:

1. Pry off **grey** OSB pneumatic line at pneumatic multiple connector (using a 7mm open end wrench).
2. Connect tester in sequence to each of the **grey** OSB pneumatic lines which lead to either the pressure reservoir in the trunk or one of the two control valves at the front seats using connector 007 997 61 82.

Vehicles as of approx. 01/94:

1. Disconnect **grey** OSB pneumatic lines at pneumatic distributor.

Letters on the distributor indicate whereto the pneumatic lins are leading.

- A → Vacuum reservoir                      B → Left front seat
- C → Right front seat

On vehicles as of approx. 01/94, the disconnected pneumatic lines are to be reconnected to the distributor with connector 007 997 61 82.

Parts Required for Test:

- 1 Connector, 50 mm long                      007 997 61 82

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
2.0	<b>Line and reservoir</b>	<b>Yellow</b> connector on tester.	Apply 600 mbar pressure to line and pressure reservoir.	Pressure drop 5 mbar in 1 minute.	32 ⇒ 5.0, Reservoir leaks. Replace reservoir.
3.0	<b>Line and control valve</b>	<b>Yellow</b> connector on tester.	Apply 600 mbar pressure to line and control valve. Set adjuster to position 0. (On vehicles with multi-contour seat back, set rocker switch to minimum).	Pressure drop 5 mbar in 1 minute.	32 ⇒ 4.0, 5.0

Pneumatic Test Program – Test (OSB)

C. Control valve

Preparation for Test:

1. Remove OSB control valve.
2. Cap all connections on control valve except connection **P** with caps, part no. 000 987 29 45.
3. Connect vacuum/pressure tester to connection **P** of control valve.

Parts Required for Test:

- |   |                       |               |
|---|-----------------------|---------------|
| 5 | Cap                   | 000 987 29 45 |
| 1 | Connector, 50 mm long | 007 997 61 82 |

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
4.0	<b>OSB control valve pressurized in each of the 3 height positions</b>	<b>Yellow</b> connector on tester.	Apply 600 mbar pressure to pressure regulator. Set adjuster to 0. Side bolster rocker switch to minimum.	Pressure drop 5 mbar in 1 minute.	Control valve.

### Pneumatic Test Program – Test (OSB)

#### D. Lines

##### Preparation for Test:

1. Connect tester to one end of pneumatic line and plug other end with cap, part no. 000 987 29 45.

##### Parts Required for Test:

1	Cap	000 987 29 45
1	Connector, 50 mm long	007 997 61 82
1	Connector	129 805 04 44

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
5.0	<b>Leakage while pressurized</b>	<b>Yellow</b> connector on tester.	Apply 600 mbar pressure to lines.	Pressure drop 0 mbar in 1 minute.	Pneumatic line.

### Pneumatic Test Program – Test (OSB)

#### E. Air cushion

##### Preparation for Test:

1. Provide access to connector between control valve and pneumatic lines.

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
6.0	<b>Air cushion and pneumatic line leakage</b>	<b>Yellow</b> connector on tester.	Apply <b>200 mbar</b> pressure individually to each line in the pneumatic harness.	Pressure drop 5 mbar in 1 minute.	Air cushion and pneumatic line in backrest leak, replace.