

Pneumatic Test Program – Test (RHR)

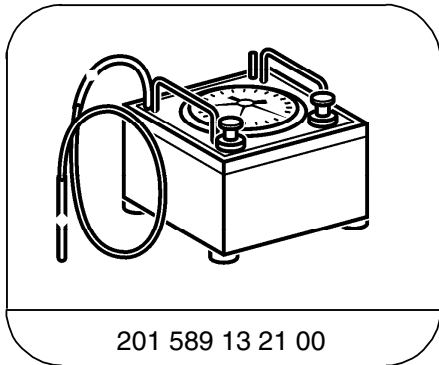
Preliminary work:

Diagnosis - Diagnostic Trouble Code (DTC) Memory	11 PSE
PSE Control Module Test	32 PSE

Data (mbar)

Test procedure	Permissible deviation
Allowable system leakage at 300 mbar vacuum in 1 minute.	30 mbar
Allowable leakage of actuators with lines at 300 mbar vacuum in 1 minute.	25 mbar

Special Tools



201 589 13 21 00

Tester

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A. Entire system

Preparation for Test:

Vehicles up to 07/94:

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

Vehicles starting 08/94:

1. Disconnect **white/blue** 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	Connectors, 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),
RH (German) = **BA** (English),
FKS (German) = **RHR** (English),
SFG (German) = **RTG** (English),
PÜ/P+ (OSL) (German) = **PÜ/P+ (OSB)** (English),
PU/P- (SRU) (German) = **PU/P- (MVA)** (English).

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	Complete system evacuated	Black connector on tester. FKS on bottom side of the multiple connector.	Apply 300 mbar vacuum to entire system.	Vacuum loss 30 mbar in 1 minute.	33 PSE ⇒ 2.0, 32 ⇒ 2.0.

Pneumatic Test Program – Test (RHR)

B. Vacuum lines with actuators

Preparation for Test:

Vehicles up to 07/94:

1. Pry off **white/blue** rear head restraint retraction (RHR) pneumatic lines at pneumatic multiple connector (using a 7 mm open end wrench).
2. Connect tester in sequence to each of the **white/blue** RHR pneumatic lines using connector 007 997 61 82.

Vehicles as of 08/94:

1. Disconnect **white/blue** RHR pneumatic lines at pneumatic distributor.
2. Connect tester in sequence to each of the **white/blue** RHR pneumatic lines using connector 007 997 61 82.

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

A → Left actuator B → Right actuator

Note:

1. If an actuator does not operate correctly and no leakage is found, check the respective lines for kinks or blockages.
2. On vehicles as of approx. 06/94, 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	Vacuum leakage, pneumatic lines and actuators	Black connector on tester.	Apply 300 mbar vacuum to the actuator and line.	Vacuum loss 25 mbar in 1 minute.	32 ⇒ 3.0, 32 ⇒ 4.0.

Pneumatic Test Program – Test (RHR)

C. Actuators

Preparation for Test:

1. Remove the actuator (See SMS, Repair Instructions, Job No. 91-400).
2. Connect the pressure/vacuum tester to the pneumatic connector of the actuator.

Parts Required for Test:

- | | | |
|---|-----------------------|---------------|
| 1 | Connector, 50 mm long | 007 997 61 82 |
|---|-----------------------|---------------|

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
3.0	Actuator holds vacuum	Black connector on tester.	Apply 300 mbar vacuum to the actuator.	Vacuum loss 25 mbar in 1 minute.	Actuator.

Pneumatic Test Program – Test (RHR)

D. Lines

Preparation for Test:

1. Connect the tester at one end of the pneumatic line and seal the other end with cap 124 805 02 44.

Parts Required for Test:

- | | | |
|---|-----------------------|---------------|
| 1 | Cap | 124 805 02 44 |
| 1 | Connector, 50 mm long | 007 997 61 82 |

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
4.0	Vacuum leakage	Black connector on tester.	Apply 300 mbar vacuum to the lines.	Vacuum loss 0 mbar in 1 minute.	Pneumatic line.