

Pneumatic Test Program – Test (RHR)

Preliminary work:

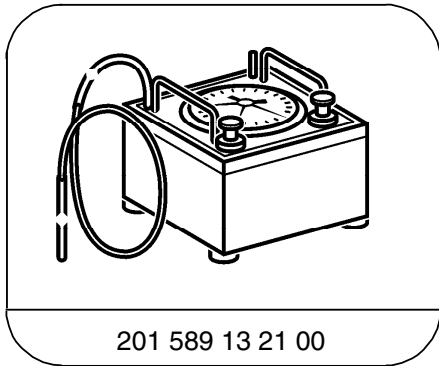
PSE control module voltage supply 23 PSE ⇒ 1.0, 2.0
 PSE Control Module Test 32 PSE

Data (mbar)

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

Vacuum distribution block used with gasoline models only

Special Tools



201 589 13 21 00

Tester

Pneumatic Test Program – Test (RHR)

A. Entire System

Preparation for Test:

1. Provide access to PSE control module (A37), disconnect **white** RHR pneumatic line with socket from PSE control module.
2. Connect tester to disconnected socket using connector 202 805 03 44.



If an actuator does not operate correctly and no leakage is found, check the respective lines for kinks or blockages.

Parts Required for Test:

- | | | |
|---|--------------------------|---------------|
| 1 | Connector | 202 805 03 44 |
| 2 | Rubber 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	Complete system evacuated	Black connector on tester to connector	Apply 300 mbar vacuum to entire system.	Vacuum loss 30 mbar in 1 minute.	32 PSE/RHR ⇒ 2.0, 32 PSE/RHR ⇒ 3.0

1) Vacuum distributor block on gasoline models only.

Pneumatic Test Program – Test (RHR)

B. Actuators

Preparation for Test:

1. Remove RHR actuators.
2. Connect tester to pneumatic connection of actuator.

Parts Required for Test:

- | | | |
|---|-------------------------|---------------|
| 2 | Rubber hose, 50 mm long | 007 997 61 82 |
| 1 | Pneumatic line, 1m long | 000 158 14 35 |
| 1 | Socket | 202 800 02 53 |

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

Pneumatic Test Program – Test (RHR)

C. Lines

Preparation for Test:

1. Connect tester to one end of pneumatic line and plug other end with cap, part no. 124 805 02 44.

Parts Required for Test:

- | | | |
|---|-----------------------|---------------|
| 1 | Connector | 202 805 03 44 |
| 3 | 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
3.0	Vacuum leakage	Black connector on tester.	Apply 300 mbar vacuum to pneumatic line.	Vacuum loss 0 mbar in 1 minute.	Pneumatic line leaks. Repair/Replace.