

### Pneumatic Test Program – PSE Control Module Test

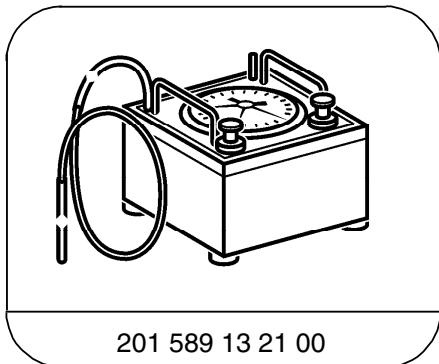
#### Preparation for Test:

1. **Model 202 up to 11/94:** Check fuses F3–33 and F3–35 ok,
2. **Model 202 as of 12/94:** Check fuses F1–24 and F1–27 ok,
3. Battery voltage 11 – 14 V.
4. Connect reservoir with vacuum Y-distributor to vacuum/pressure tester.
5. Provide access to PSE control module (A37/4, A37/5) and disconnect PSE pneumatic multiple connector (do not disconnect wiring harness).
6. Connect vacuum/pressure tester with reservoir to PSE control module (see 32, Figure 1).

#### Parts Required for Test:

|   |               |               |
|---|---------------|---------------|
| 1 | Reservoir     | 107 800 08 19 |
| 1 | Y-distributor | 017 078 01 45 |
| 5 | Plug          | 000 987 29 45 |

#### Special Tools



Tester

#### Notes:

1. Before testing the safety switch time of the consumers, as well as between the tests for **OSB** (pressure) and **MVA** (vacuum), interrupt the PSE control module power supply for at least 3 seconds.
2. After completing the **PSE** control module test, do not operate any system which would require vacuum or pressure for approx. 10 minutes.
3. The connections on the PSE control module are marked with their German acronyms. Reference to these connections in this test are made to their U. S. equivalents. In other words:  
 ZV (German) = CL (U.S.),  
 SRU (German) = MVA (U.S.),  
 OSL (German) = OSB (U.S.).

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Connection diagram - Vacuum/Pressure Tester with Reservoir

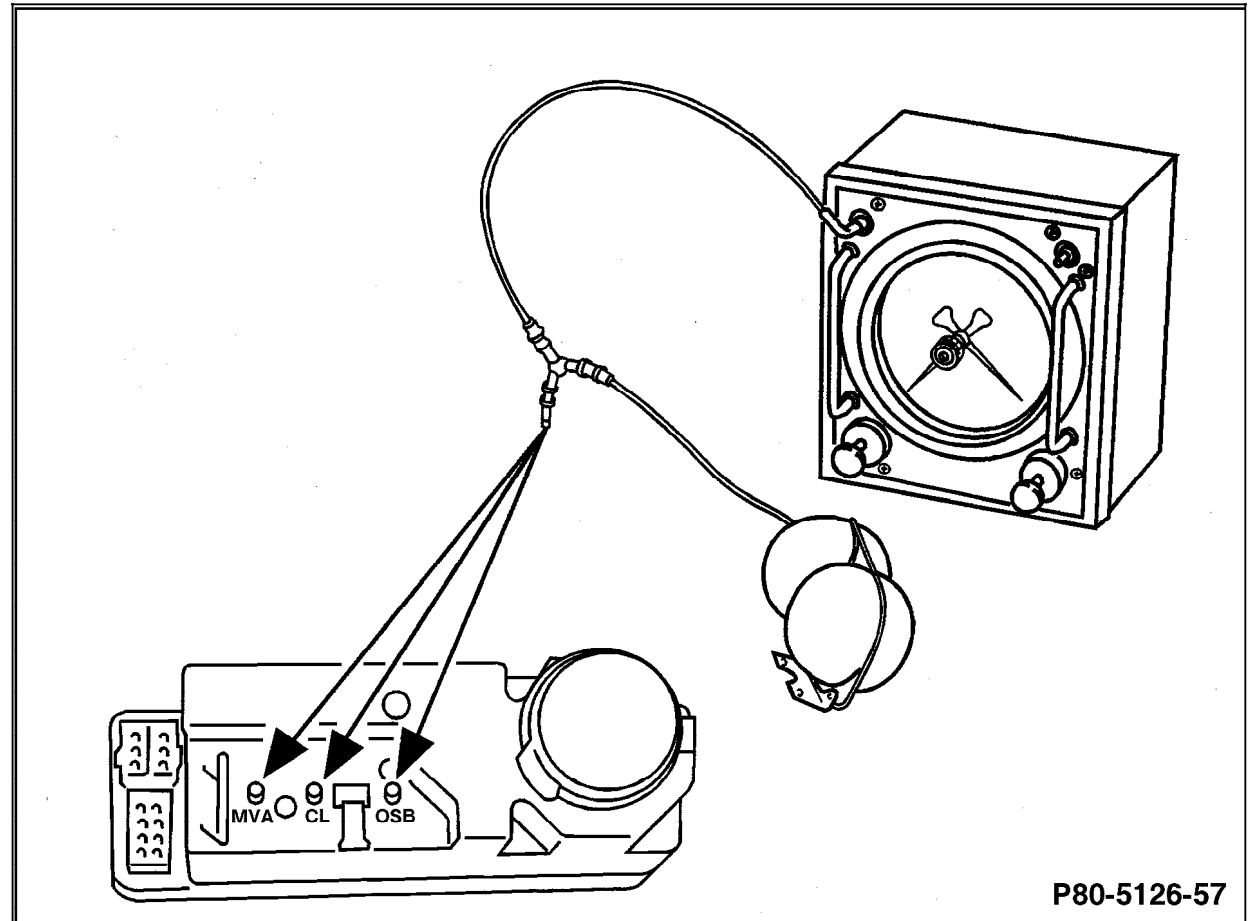


Figure 1

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P80-5126-57

#### Pneumatic Test Program – PSE Control Module Test

| Test step                     | Test scope  | Test connection   | Test condition  | Nominal value   | Possible cause/Remedy                                     |
|-------------------------------|---|---|---|---|---|
| ⇒ 1.0                         | <b>Central locking system</b><br>Vacuum supply                              | PSE control module connector <b>CL</b> to <b>black</b> connector on tester.   | Cap connections <b>MVA, OSB</b> , on the <b>PSE</b> control module.<br>Lock central locking system.               | 450 mbar in 1.2 sec.  | 23 PSE/CL ⇒ 2.0 – 5.0, PSE control module (A37/4, A37/5). |
| ⇒ 2.0                         | <b>Central locking system</b><br>Pressure supply                            | PSE control module connector <b>CL</b> to <b>yellow</b> connector on tester.  | Cap connections <b>MVA, OSB</b> , on the <b>PSE</b> control module.<br>Unlock central locking system.             | 450 mbar in 0.8 sec.  | 23 PSE/CL ⇒ 2.0 – 5.0 , A37/4, A37/5                      |
| ⇒ 3.0<br><b>Only with OSB</b> | <b>Orthopedic seat backrest (multi-contour backrest)</b><br>Pressure supply | PSE control module connector <b>OSB</b> to <b>yellow</b> connector on tester. | Ignition: <b>OFF</b><br>Cap connections <b>CL, MVA</b> , on the <b>PSE</b> control module.<br>Ignition: <b>ON</b> | Pump runs after approx. 4 sec. delay.<br>450 mbar in 0.8 sec. | A37/5   |
| ⇒ 4.0                         | <b>Intake manifold vacuum assist</b><br>Vacuum supply                       | PSE control module connector <b>MVA</b> to <b>black</b> connector on tester.  | Ignition: <b>OFF</b><br>Cap connections <b>CL, OSB</b> , on the <b>PSE</b> control module.<br>Ignition: <b>ON</b> | Pump runs after approx. 8 sec. delay.<br>450 mbar in 1.2 sec. | A37/4, A37/5  |

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| Test step | Test scope   | Test connection  | Test condition  | Nominal value                       | Possible cause/Remedy                           |
|-----------|--|--|---|-------------------------------------|---|
| ⇒ 5.0     | <b>“Rest“ function control</b><br>Vacuum supply      | PSE control module connector <b>MVA</b> to <b>black</b> connector on tester. | Ignition: <b>OFF</b><br>Engine coolant temperature >50° C.<br>Disconnect transparent pneumatic hose at distributor plug of <b>PSE</b> control module.<br>Push <b>REST</b> pushbutton.               | Pump runs, 450 mbar in 1.2 sec.     | 23 ⇒ 4.0,<br>PSE control module (A37/4, A37/5). |
| ⇒ 6.0     | <b>Central locking system</b><br>Safety switch time  | -  | Cap connections <b>MVA, OSB</b> , on the <b>PSE</b> control module.<br>Using 7mm wrench pry off yellow connector at <b>CL</b> distributor connection.<br>Lock or unlock central locking system.     | PSE control module runs, 10± 1 sec. | 23 PSE/CL ⇒ 2.0 – 5.0,<br>A37/4, A37/5          |
| ⇒ 7.0     | <b>Additional consumer MVA</b><br>Safety switch time | -  | Ignition: <b>OFF</b><br>Cap connections <b>CL, OSB</b> , on the <b>PSE</b> control module.<br>Using 7mm wrench pry off transparent pneumatic hose at <b>MVA</b> distributor.<br>Ignition: <b>ON</b> | PSE control module runs, 60 sec.    | A37/4, A37/5                                    |

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| Test step                     | Test scope   | Test connection | Test condition  | Nominal value                          | Possible cause/Remedy       |
|-------------------------------|--|-----------------|---|--|-----------------------------|
| ⇒ 8.0<br><b>Only with OSB</b> | <b>Additional consumer OSB</b><br>Safety switch time | -               | Ignition: <b>OFF</b><br>Cap connections <b>CL, MVA</b> ,<br>on the <b>PSE</b> control module.<br>Using 7mm wrench pry off<br>grey pneumatic hose at<br><b>OSB</b> distributor.<br>Ignition: <b>ON</b> | PSE control<br>module runs,<br>60 sec. | PSE control module (A37/5). |