Pneumatic Test Program - Test

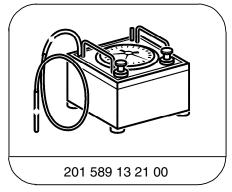
Preparation for Test

- 1. Review 11, 12, 14, 15, 20, 21, 31, 32, 41
- 2. Disconnect all vacuum lines at vacuum distributor block (36).
- 3. Check gray vacuum line to intake manifold for leaks.

Note:

Permissible leakage of the elements with vacuum lines at 400 mbar vacuum per minute is 30 mbar.

Special Tools



Tester

Test equipment; See MBUSA Standard Service Equipment Program

| Description | Brand, model, etc. | | | | |
|-------------|--------------------|--|--|--|--|
| Connector | 124 805 04 44 | | | | |

Pneumatic Test Program – Test

A. Vacuum Distributor Block, Vakuum Reservoir, Switchover Valve Block (Y11/3) Test

| ⇒ | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|-----|---|---|---------------------------------------|--|------------------------------------|
| 1.0 | Entire vacuum distributor block | Connection "P" on vacuum tester. | Evacuate system with 300 mbar vacuum. | 30 mbar pressure increase in 1 minute | Vacuum distributor block, ⇒ 1.1 |
| 1.1 | Vacuum distributor block, check valve "a" | Connection "1" on vacuum tester. | Evacuate system with 300 mbar vacuum. | 30 mbar pressure increase in 1 minute | Vacuum distributor block, ⇒ 1.2 |
| 1.2 | Vacuum distributor block, check valve "b" | Connection "4" on vacuum tester. | Evacuate system with 300 mbar vacuum. | 30 mbar pressure increase in 1 minute | Vacuum distributor block. |
| 2.0 | Vacuum reservoir with vacuum line | Red/gray vacuum line (connection 3) on vacuum tester. | Evacuate system with 300 mbar vacuum. | 30 mbar pressure increase in 1 minute | Vacuum lines, Vacuum reservoir. |
| 3.0 | Switchover valve block (Y11/3) | Ignition: OFF medium green line (connection 5) on vacuum tester. | Evacuate system with 300 mbar vacuum. | 30 mbar pressure increase in 1 minute | Vacuum line, Y11/3. |

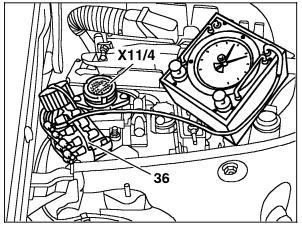
3.7 Air Conditioning (A/C)

Model 202 as of M.Y. 1996

Pneumatic Test Program – Test

Preparation for Test

- B. Vacuum system
- 1. Ignition: **ON**
- 2. Medium green line (connection "5") on vacuum tester.



P83.40-0440-01

Figure 2

36 Vacuum distribution block

3.7 Air Conditioning (A/C)

Pneumatic Test Program – Test

B. Vacuum system Test

| \Rightarrow | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|---------------|---|--|--|---|---|
| 1.0 | Defroster flap vacuum actuator, long stroke | Medium green line (connection 5) on vacuum tester. | Ignition: ON Press I Evacuate system with 300 mbar vacuum. | 30 mbar pressure increase in 1 minute. | Vacuum line, Vacuum actuator 38 |
| 1.1 | Defroster flap vacuum actuator, short and long stroke | Medium green line (connection 5) on vacuum tester. | Ignition: ON Press Evacuate system with 300 mbar vacuum. | 30 mbar pressure increase in 1 minute. | Vacuum line, Vacuum actuator 38 |
| 2.0 | Diverter valve flap center vent | Medium green line (connection 5) on vacuum tester. | Ignition: ON Press Temperature selector "LO" Evacuate system with 300 mbar vacuum. | 30 mbar pressure increase in 1 minute. | Vacuum line, Vacuum actuator 41 |
| 3.0 | Blend air flap center vent | Medium green line (connection 5) on vacuum tester. | Ignition: ON Press E Evacuate with 300 mbar vacuum. | 30 mbar pressure increase in 1 minute. | Vacuum line, Vacuum actuator 45 and 46 |
| 4.0 | Footwell flap, long stroke | Medium green line (connection 5) on vacuum tester. | Ignition: ON Press Exacuate system with 300 mbar vacuum. | 30 mbar pressure increase in 1 minute. | Vacuum line, Vacuum actuator 39 |

3.7 Air Conditioning (A/C)

Pneumatic Test Program – Test

| \Rightarrow | Test scope | Test connection | Test condition | Nominal value | Possible cause/Remedy |
|---------------|---|--|--|---|------------------------------------|
| 4.1 | Footwell flap vacuum element, long and short stroke. | Medium green line (connection 5) on vacuum tester. | Ignition: ON Press F Evacuate system with 300 mbar vacuum. | 30 mbar pressure increase in 1 minute. | Vacuum line, Vacuum actuator 39 |
| 5.0 | Fresh/recirculating air flap vacuum element, long stroke. | Medium green line (connection 5) on vacuum tester. | Ignition: ON Illuminates Evacuate system with 300 mbar vacuum. | 30 mbar pressure increase in 1 minute. | Vacuum line, Vacuum actuator 44 |
| 5.1 | Fresh/recirculating air flap vacuum element, short and long stroke. | Medium green line (connection 5) on vacuum tester. | Ignition: ON Illuminates Evacuate system with 300 mbar vacuum. | 30 mbar pressure increase in 1 minute. | Vacuum line, Vacuum actuator 44 |