

**Pneumatic Test Program - Preparation for Test**

**Preparation for Test**

1. Disconnect all vacuum lines at vacuum distributor block.
2. Check gray vacuum line to intake manifold for leaks.

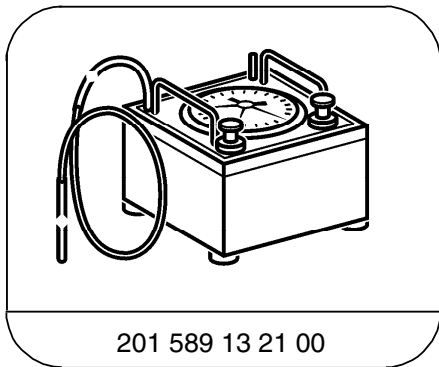


Permissible leakage of the elements with vacuum lines at 400 mbar vacuum per minute is 30 mbar.

**Test equipment; See MBUSA Standard Service Equipment Program**

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

**Special Tools**



201 589 13 21 00

Tester

Pneumatic Test Program – Test

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

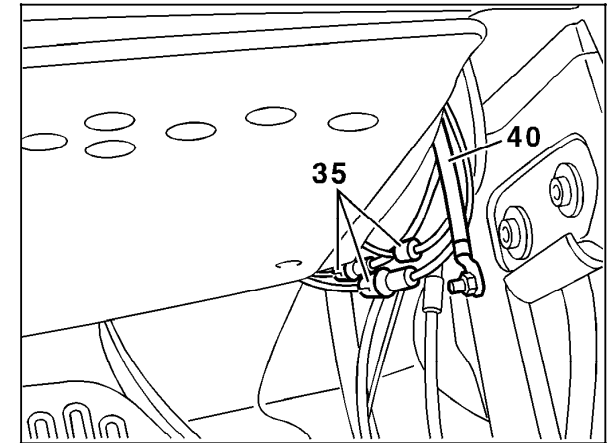
⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	Vacuum line to intake manifold	Vacuum tester to medium green line on switchover valve (Y11). Apply plug to gray line on intake manifold.	Be aware of check valve in vacuum line. Evacuate system with 300 mbar vacuum.	30 mbar pressure increase in 1 minute.	Vacuum lines.
2.0	Vacuum reservoir	Connect vacuum tester after connector (35) (passenger compartment).	Evacuate system with 300 mbar vacuum.	30 mbar pressure increase in 1 minute.	Vacuum lines, Vacuum reservoir.

#### Pneumatic Test Program – Test

##### Preparation for Test

##### B. Vacuum system

1. Ignition: **ON**
2. Press **REST** and **☺** buttons >5 seconds.
3. Medium green line (connection “5”) on vacuum tester.
4. **☺** blower runs with increased speed.



P83.25-0229-01

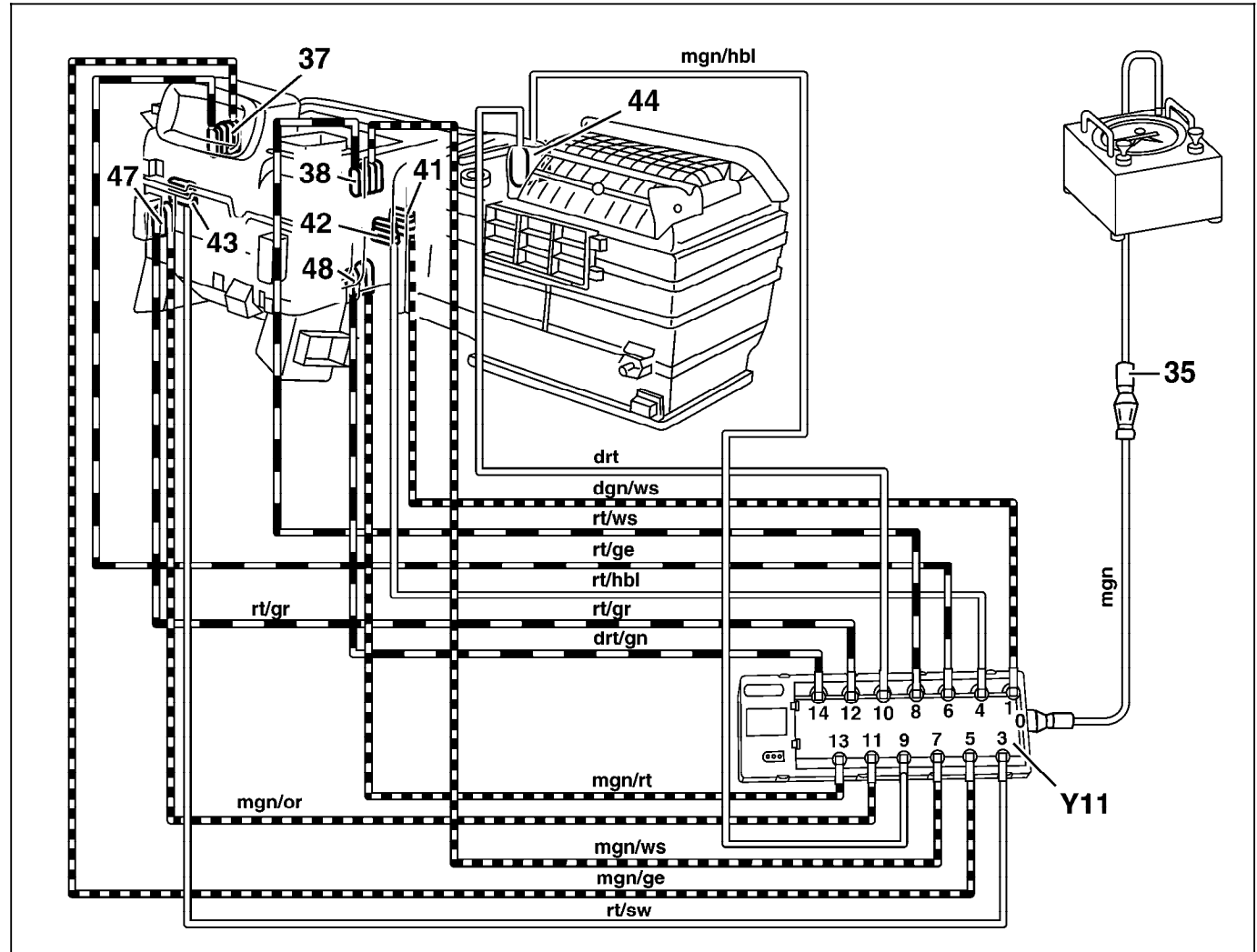
Figure 2

35 Cockpit separation point

#### Pneumatic Test Program – Test

##### B. Vacuum system test A

1. Left display  $\square$ : vacuum actuators 37, 38, 47 and 48 (medium green and red vacuum lines) with vacuum applied.
2. Left display  $\uparrow$  and  $\downarrow$ : vacuum actuator 41 (medium green vacuum line) with vacuum applied.
3. If vacuum on gauge drops: remove lines from valve block (Y11) and then individually test lines and vacuum actuators.
4. Replace any defective vacuum actuator(s) or pneumatic line(s).



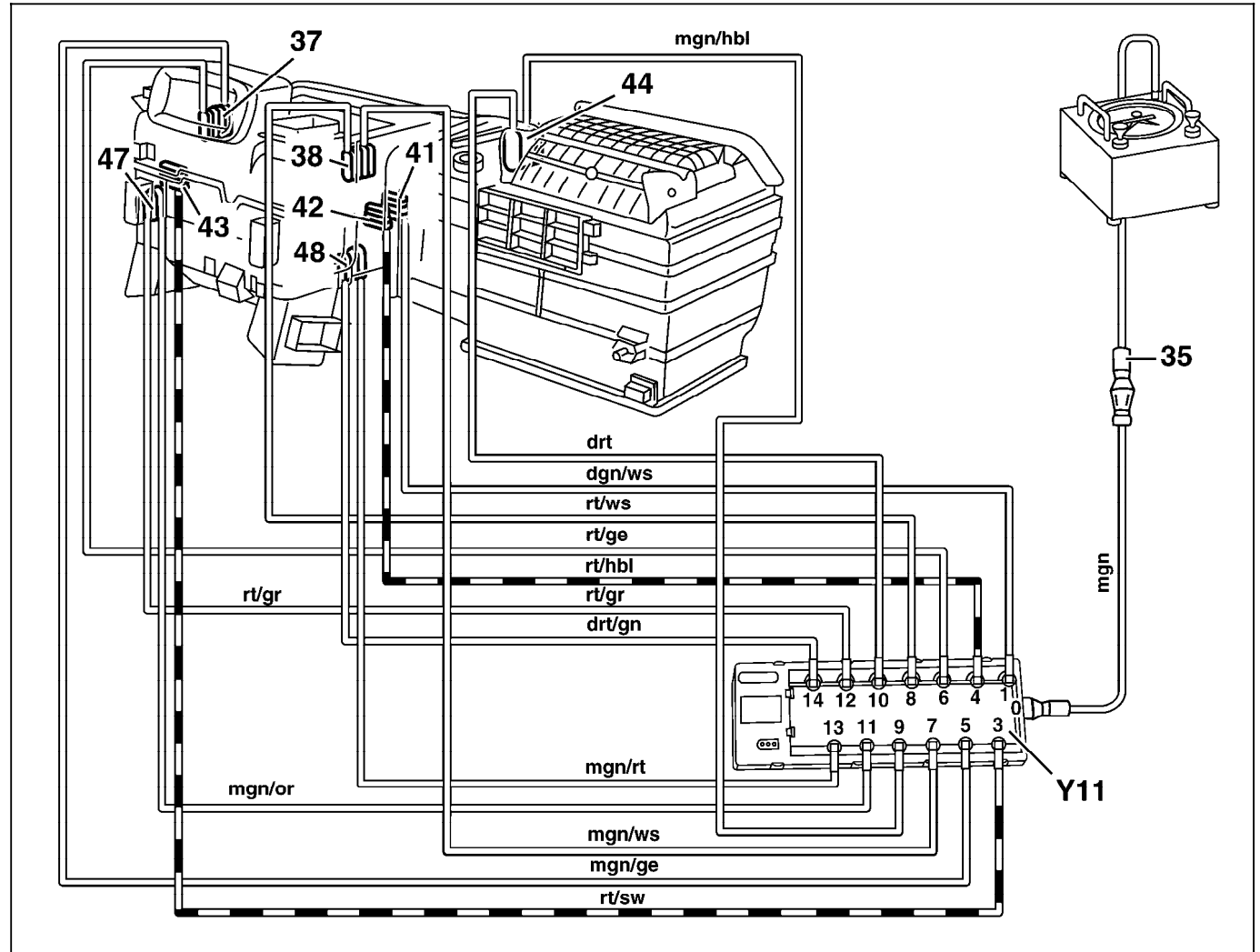
lbu	Light blue	mgn	Medium green
drd	Dark red	gy	Grey
ye	Yellow	rd	Red
gn	Green	wt	White
		dgn	Dark green

P83.40-0273-76

#### Pneumatic Test Program – Test

##### B. Vacuum system test B

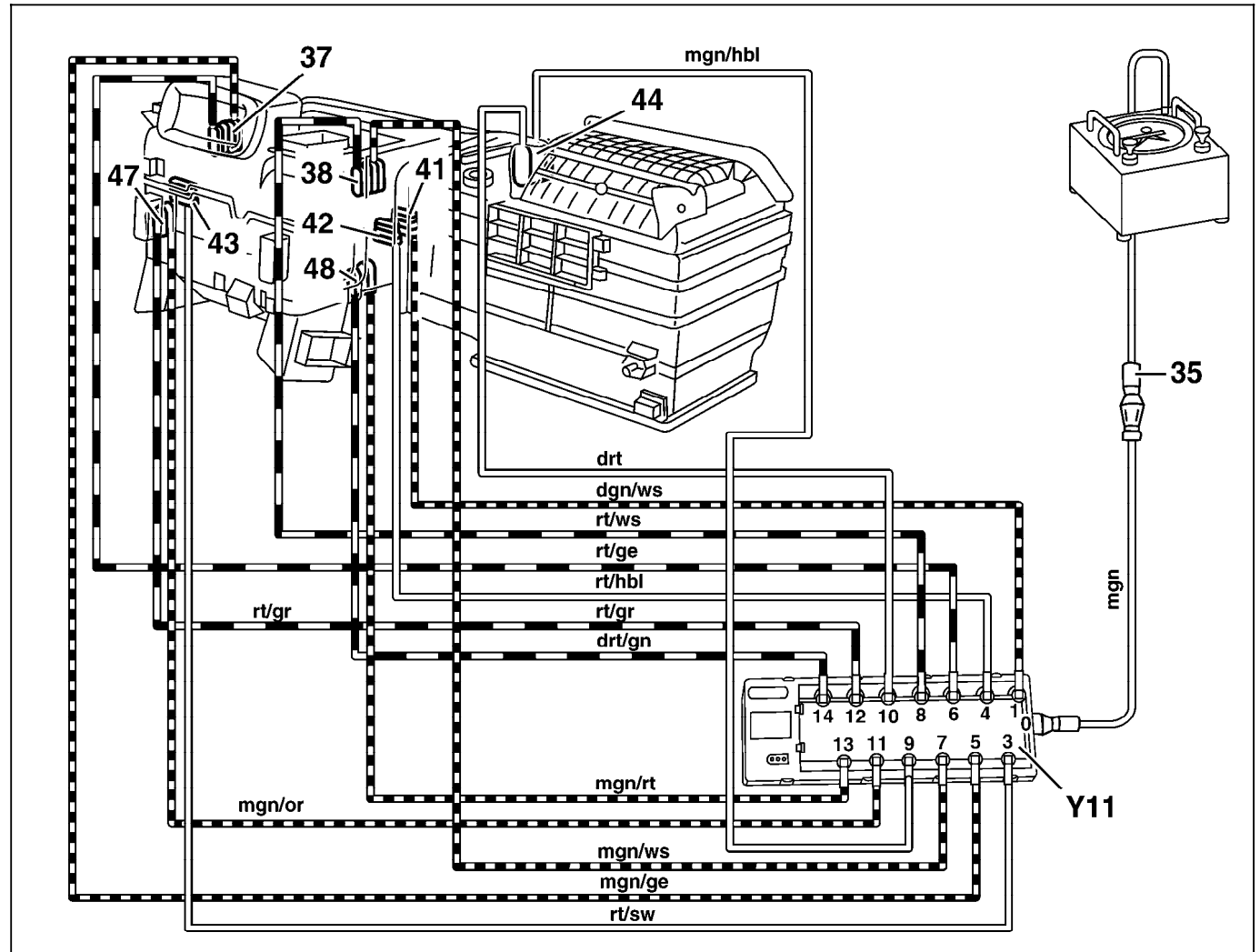
1. Left display 3 and 4: vacuum actuators 42 and 43 (red vacuum line). In addition: vacuum actuators 37 and 38 (see vacuum diagram 1, 32/6).
2. If vacuum on gauge drops: remove lines with support from valve block (Y11) and then individually test lines and vacuum actuators.
3. Replace any defective vacuum actuator(s) or pneumatic line(s).



Vacuum diagram 2

P83.40-0274-76

Pneumatic Test Program – Test



ibu	Light blue	mgn	Medium green
drd	Dark red	gy	Grey
ye	Yellow	rd	Red
gn	Green	wt	White
		dgn	Dark green

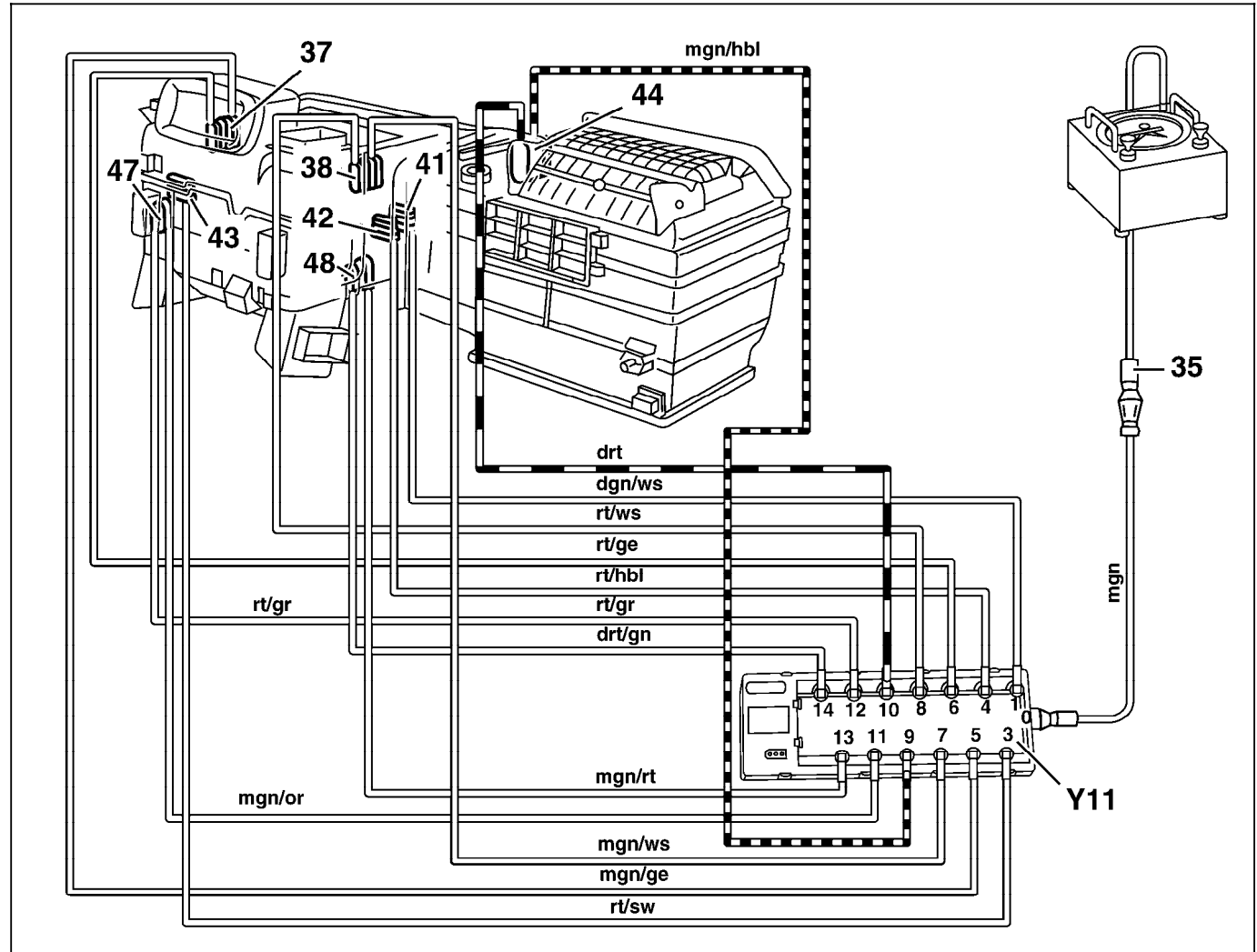
Vacuum diagram 1

P83.40-0273-76

#### Pneumatic Test Program – Test

##### B. Vacuum system test C

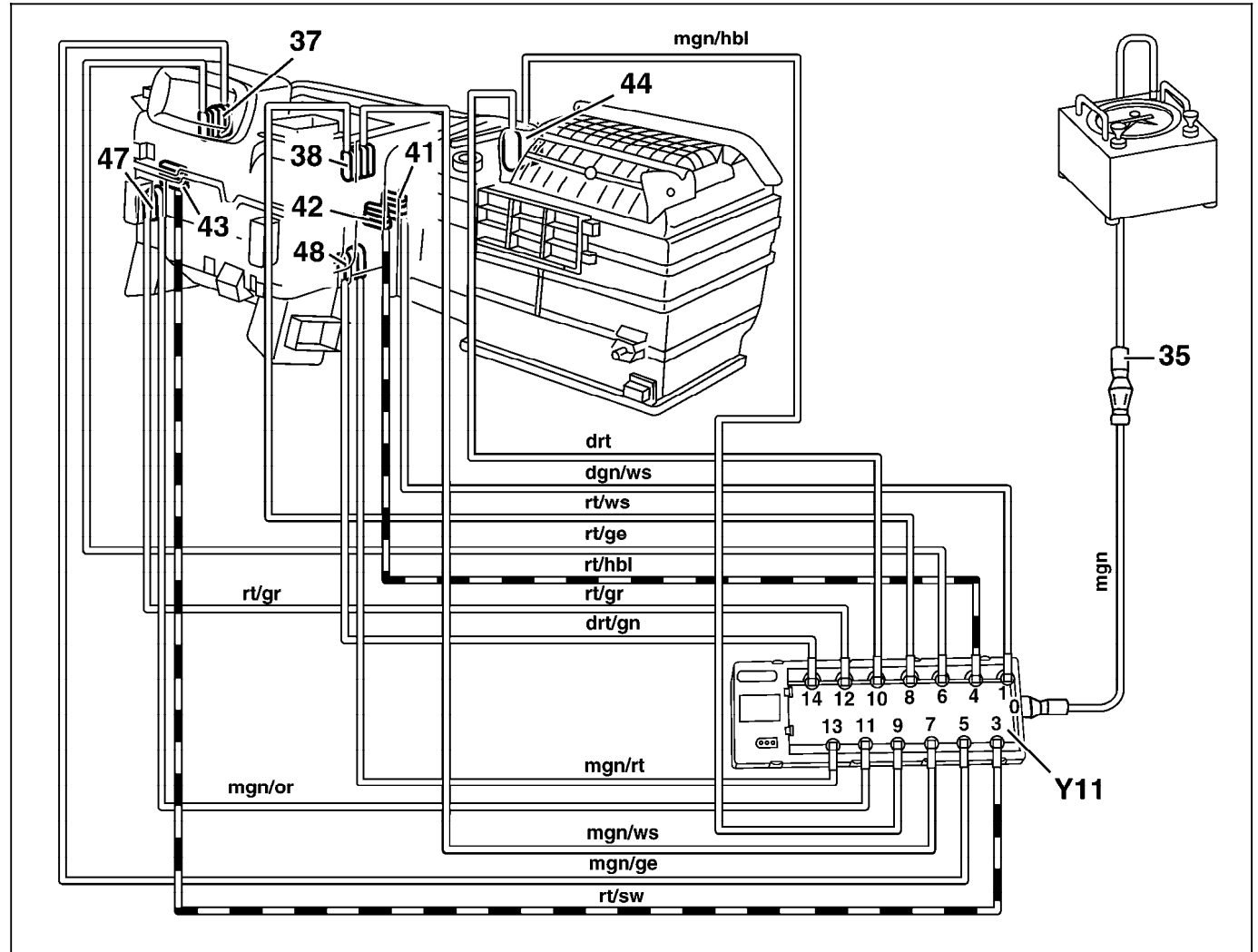
1. Left display I and II: vacuum actuators 44 (dark red and medium green vacuum lines). In addition vacuum actuators 42 and 43 (see vacuum diagram 2, 32/8).
2. If vacuum on gauge drops: remove lines from valve block (Y11) and then individually test lines and vacuum actuators.
3. Replace any defective vacuum actuator(s) or pneumatic line(s).



ibu	Light blue	mgn	Medium green
drd	Dark red	gy	Grey
ye	Yellow	rd	Red
gn	Green	wt	White
		dgn	Dark green

P83.40-0275-76

Pneumatic Test Program – Test



ibu	Light blue	mgn	Medium green
drd	Dark red	gy	Grey
ye	Yellow	rd	Red
gn	Green	wt	White
		dgn	Dark green

Vacuum diagram 2

P83.40-0274-76