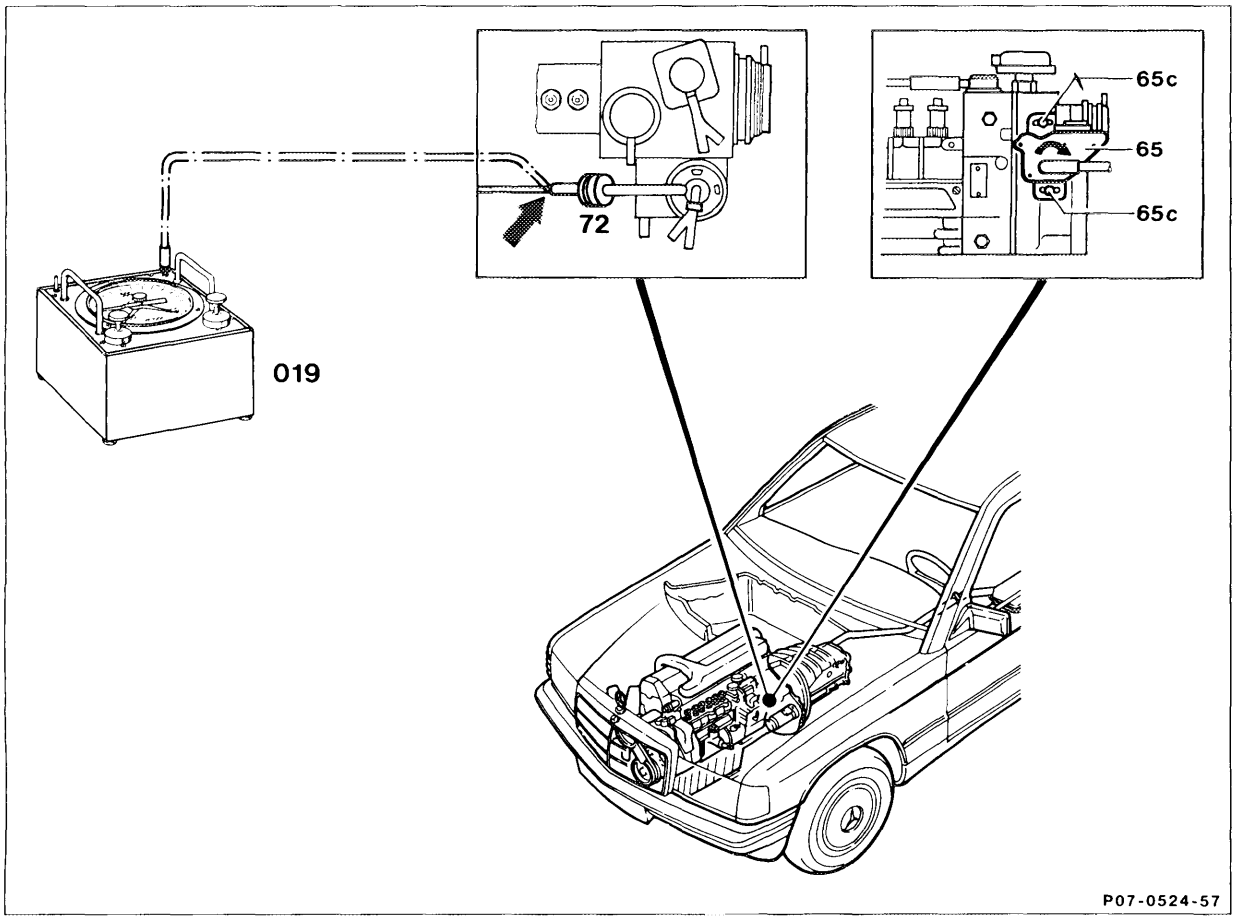
07.1-170 Testing and adjusting vacuum control valve for automatic transmission

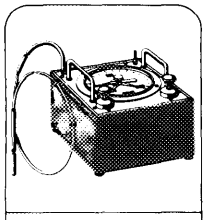


Vacuum tester (019) to damper (72) of vacuum line . . . . . connect and read vacuum at idle (set values and test values see next page).

With engine off, move control to full-throttle stop position.
Nominal value: 0 mbar, adjust vacuum control valve if required. Check vacuum lines, check vacuum pump, replace vacuum control valve.

Mounting bolts (65c)	loosen, fully open throttle until the control lever of the injection pump contacts the full-load stop. Turn vacuum control valve (65) in the direction of the arrow until resistance can be felt. In this position secure vacuum control valve.

Special tool



201 589 13 21 00
00 42 80

Test and adjusting values, characteristics

Engine	Pressure control flap		Cap identification	Part no.	EGR valve identification	Vacuum adjustment mbar
	mech.	pneu.				
602 with EGR and automatic transmission	–	yes	black [1]	123 300 10 33	blue	385 ± 25
602 with EGR and manual transmission	–	yes	green	123 300 12 33	blue	> 300
602	yes	–	yellow	124 300 03 33	brown	> 300

[1]) as of February 1987 with red cap

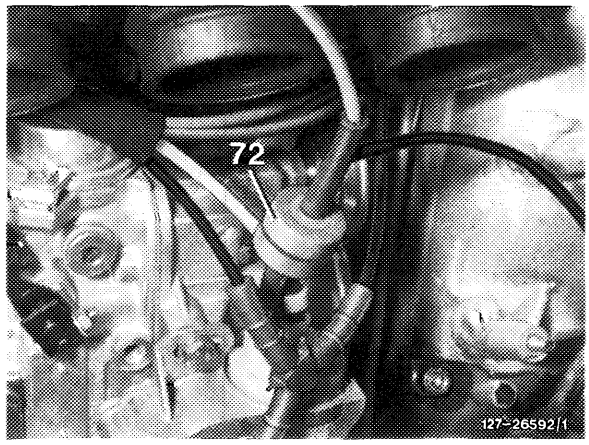
Checking

1 Pull off vacuum line, connect vacuum tester to damper (72) and check vacuum at idle.

Nominal values see table.

2 With the engine off, move control linkage into full throttle stop position. Check vacuum. Nominal value: 0 mbar.

3 If nominal values are not achieved:
a) Check vacuum control valve adjustment.
b) Check vacuum lines according to vacuum diagram, check vacuum pump, replace vacuum control valve if necessary.

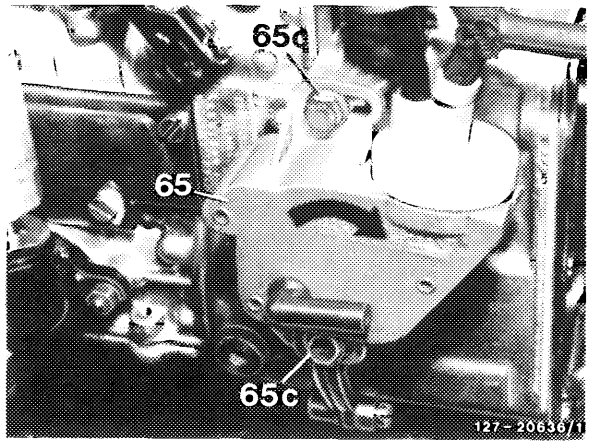


Adjusting

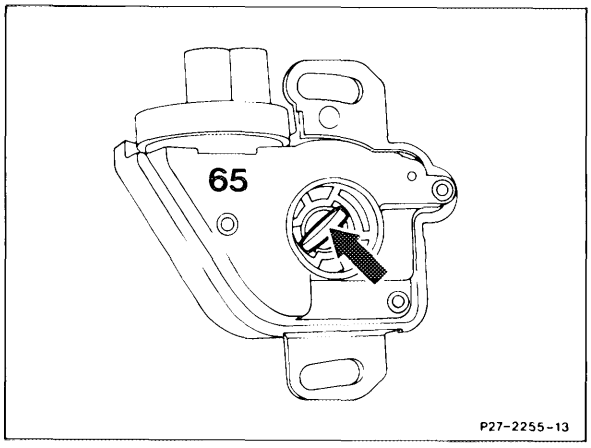
4 Loosen mounting screws (65 c).

5 Fully open throttle so that the control lever of the injection pump contacts the full load stop.

6 Turn vacuum control valve (65) in the direction of the arrow until resistance can be felt. In this position secure mounting screws.



A sealing boot (arrow) is installed together with the vacuum control valve to prevent dust and dirt from entering the vacuum control valve.



Repair instructions

Vacuum control valves differ for manual and automatic transmissions.