

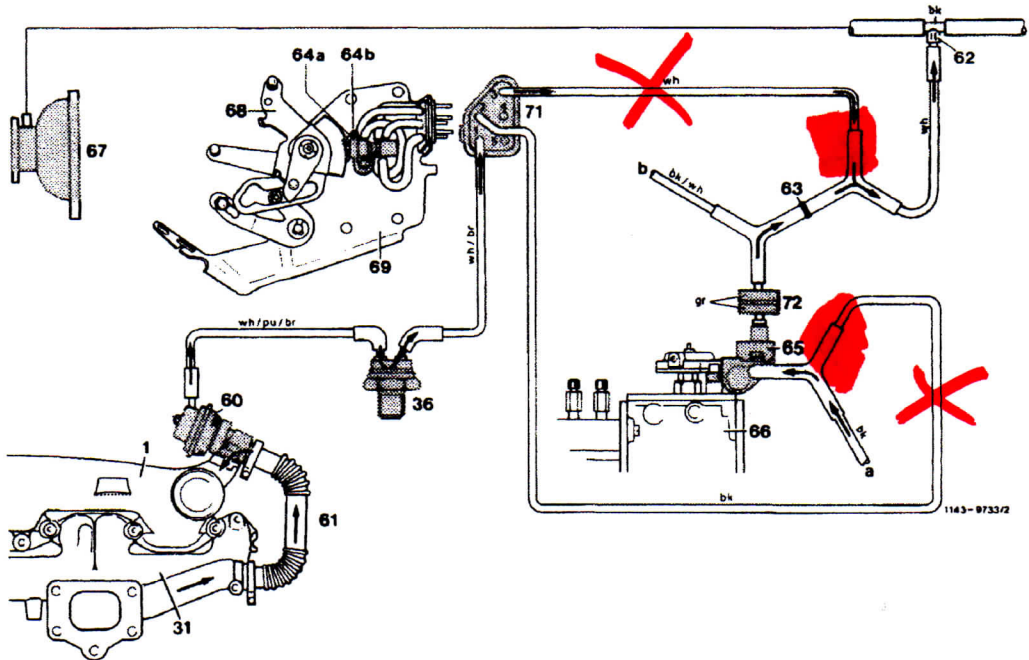
**Total operation (USA) starting model year 1981**

EGR begins above approx. 40 °C/104 °F coolant temperature after free travel of free travel rod is eliminated, EGR takes place in total partial load range.

Starting at a coolant temperature of approx. 40 °C/104 °F the thermovalve (36) opens. The vacuum, at idle 350–500 mbar, moves to switchover valve (64a).

If the control linkage is at idle speed stop, the EGR valve (60) is vented externally. There is no EGR.

If the throttle linkage is opened so that the free travel in the free travel rod is eliminated, the switchover valve (64a) is switched over by the cam of guide lever (68). The vacuum now moves via the two switchover valves (64a and 64b) to EGR valve and opens the valve completely. This results in max. possible EGR.



**Vacuum routing after eliminating free travel**

- 1 Intake manifold
- 31 Exhaust manifold
- 36 Thermovalve 40 °C/104 °F
- 60 Exhaust gas recirculation valve (EGR)
- 61 Corrugated tubing
- 62 Orifice
- 63 Orifice
- 64a Switchover valve, idle speed shutoff – EGR
- 64b Switchover valve, full throttle shutoff – EGR
- 65 Vacuum control valve

- 66 Injection pump
- 67 Vacuum pump
- 68 Guide lever with cam
- 69 Valve plate
- 71 Central plug
- 72 Damper, vacuum
- a Vent to passenger compartment
- b Automatic transmission
- c Brake unit

- bk = black
- br = brown
- gr = green
- pu = purple
- re = red
- wh = white