



BMW 3 Series (E36) and 5 Series (E34) with M51 engine

Black smoke in part and full load range

If there are complaints about the above-mentioned fault, a pneumatic-electrical switchover valve in the EGR valve control could be the cause. In addition, there could also be complaints about poor performance. In this case, remove the pressure hose for the EGR valve control. If the engine reacts to the control being brought to a standstill, the EGR valve is OK. It closes correctly. The fault must therefore be in the control. The pneumatic-electrical switchover valve is often permanently open, so that the EGR valve is pulled "open". Check whether the switchover valve is permanently supplied with current. If this is the case, check whether the connectors of the switchover valve and of the radiator blind activation have been mixed up. If there is no current at the switchover valve, connect a voltmeter to the switchover valve and check at part load whether the valve is being supplied with current. If so, the fault is in the switchover valve (e.g. valve is jammed) and it has then to be replaced.