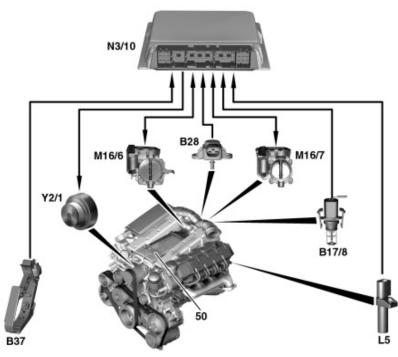
GF09.50-P-3001AM	Supercharger control function	25.11.05
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ENGINE 113.992 /995 in MODEL 230

## 50 Compressor

B17/8 Charge air temperature sensor B28 Pressure sensor (charge air) B37 Accelerator pedal sensor L5 Crankshaft position sensor M16/6 Throttle valve actuator M16/7 Air recirculation flap actuator (for model 230 at first from 07/2002) N3/10 ME control unit Y2/1 Supercharger magnetic clutch



P09.50-2071-06

The compressor is switched on and off by means of actuation of the supercharger magnetic clutch by the ME control unit.

Actuation of the magnetic clutch is undertaken by the ME-SFI [ME] control unit in accordance with the performance map according to the engine speed and engine load.

Here the Magnetic clutch is actuated by the ME-SFI [ME] control unit by means of a ground signal. The voltage supply to the magnetic clutch is via "terminal 15 secured".

The compressor is actuated between idling speed and an engine speed of about 3500 rpm when a high demand for torque (high engine loading) is present.

The compressor is always actuated for technical reasons from an engine speed of about 3500 rpm.

The compressor remains switched on during the thrust phase of the engine. This avoids any delay in actuation during the changeover from the thrust phase to the pulling phase.

The compressor is not actuated on a stationary vehicle, no matter what the engine speed is, to protect it.

The compressor is also not actuated when the battery voltage falls below 9 V or when an error is recognized in the charge air cooling system due to an implausible value from the temperature sensor.

The compressor is switched on shortly when starting at external temperatures below 0°C in order to free up the compressor from any icing which may have occurred (through the presence of condensate in the compressor).

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Diagnosis of the magnetic clutch on the mechanical supercharger is possible using the menu "Actuations" for the ME 2.8.1 control unit in the STAR DIAGNOSIS equipment.

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	haft position sensor, n/task/design/function	GF07.04-P-4116AM
Pressur /functio	e sensor, location/task/design	GF07.04- P-5014AM
	air temperature sensor, n/task/design/function	GF07.04- P-5039AM
	I control unit, location/task /function	GF07.61- P-5000AM
Compre Locatio	essor on/task/design/function	GF09.50- P-3102AM
1	harger magnetic clutch, n/task/design/function	GF09.50- P-3103AM
	rator pedal sensor, n/task/design/function	GF30.20-P-4010HA
	e valve actuator, location/task /function	GF30.22- P-4101AM

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