





AD07.61-P-4000-15AA	ME secondary air injection malfunction (causal chain) - fault code description		
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		Secondary air injection: malfunction (function chain)
1	Fault code ( Readout on generic scan tool)	P2003 (P0410)
2	Fault storage Actuation of the engine diagnosis indicator lamp (EURO3/4) or CHECK ENGINE (MIL) malfunction indicator lamp ()	after expiry of test duration and fault following two successive driving cycles with faults
3	Checking frequency	once per driving cycle
4	Checked signal or status	Closed-loop mixture control
5	Fault setting conditions Checking duration	Increase in the lambda controlling factor of at least +23% approx. 10 seconds
6	Check prerequisites	<ul style="list-style-type: none"> - Engine at idle speed - Vehicle stationary - Air pump activated at least once after engine start - No fault on voltage supply to purge control valve, air pump switchover valve and electric air pump - No fault in purge system - No fault in throttle valve actuator - No misfiring - No fault in O2 sensor upstream of TWC, aging - No fault in CAN data bus - Self-adaptation of the mixture formation not at limit - Air pressure more than around 780 hPa (i.e. no test is performed above a height of around 2500 m) - Coolant temperature at start -10°C to +45°C - Lambda control enabled - AC off.
7	Checking procedure	On starting the causal chain, all functions for self-regulation of mixture adjustment are locked, the switchover valve for regeneration is closed and the current lambda controlling factor recorded. This is followed by air injection. The mixture must be made leaner. The lambda control factor reacts in a corresponding manner with an increase of about +23%.
8		If a prerequisite changes during the test, the test is interrupted and started again later.

Air injection for engine 113

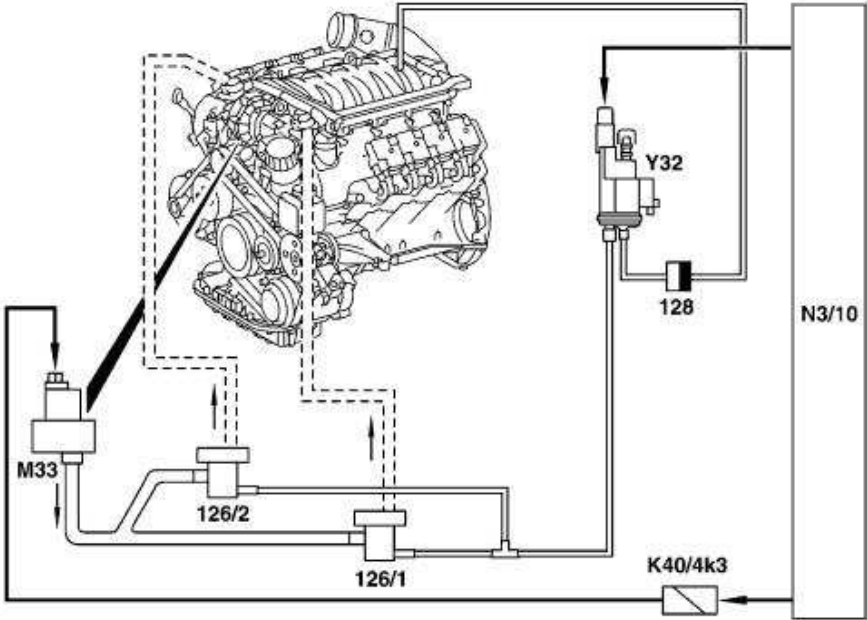
*126/1 Left shutoff valve air injection
(combination valve: Check valve integrated)*

*126/2 Right shutoff valve air injection
(combination valve: Check valve integrated)*

128 Check valve (air intake pipe vacuum)

*K40/4k3 Air pump relay
e.g. models 208, 210
M33 Electric air pump*

N3/10 ME control unit
Y32 Air pump switchover valve



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