





AD07.61-P-4000-01BA		Hot-film mass-air sensor ME-SFI - fault code description	AD
		Hot film MAF sensor	
1A	Fault code () Display on generic scan tool	P2004 (P0100)	
1B	ENGINE 113 as of 1/01 Fault code () Display on generic scan tool	P2004-[1] Short-circuit to positive (P0103) P2004-[2] Short circuit to ground/cable breakage (P0102) P2004-[4] Plausibility (P0104) P2004-[8] Plausibility (P0101)	
2	Fault storage Activation 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	Continuous	
4	Checked signal or status	Limit value signal for hot-film air mass sensor (air mass)	
5	Fault setting conditions Checking duration	<ul style="list-style-type: none"> - When the ignition is ON, the signal of the Hot film MAF sensor must be 0.98 to 1.03 V. - Plausibility: At partial load, the air mass must not deviate by more than $\pm 30\%$ from the comparative value. The comparative value is calculated from the throttle valve angle, engine speed, intake air temperature, barometric pressure and intake manifold absolute pressure. - around 5 seconds per limit value 	
6	Check prerequisites	<ul style="list-style-type: none"> - No cylinder-selective inertia fuel cut-off active - ESP not active - Engine speed greater than 400 rpm - No fault in throttle valve actual value potentiometer - Change in engine load less than 20 to 70 % - Battery voltage less than about 15.6 V 	
7		In case of any plausibility errors, check the grid on the Hot film MAF sensor for dirt. Another cause can be a high-resistance shunt (e.g. in a connector).	