





AD07.61-P-4000-01V	Hot-film mass-air sensor ME-SFI - fault code description	
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		<b>Hot-film MAF sensor (B2/5)</b>
1	Fault code (  ) Readout on generic scan tool)	1345 Loose contact with low frequency (P0104) 1346 Loose contact with high frequency (P0104) 1347 Short circuit to ground or to positive (P0102) 1349 Plausibility (P0068) 1350 Plausibility (P0101) 1351 Plausibility (P0101) 1352 Plausibility (P0101)
2	Fault storage  Actuation of engine diagnosis indicator lamp (EURO4) 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	Frequency signal from hot film MAF sensor
5	<b>Fault setting conditions</b> 1345  1346  1347 1349 1350 1351  1352  Checking duration	- Fault if a cycle duration of greater than 910 µs is recognized by the ME control unit due to a loose contact with low frequency. - Fault if a cycle duration of less than 66 µseconds is recognized due to a loose contact with high frequency. - No cycle duration is measurable due to a constant short circuit to ground or positive. - The maximum limit value is exceeded. - The minimum limit value is not reached. The lower limit of the air mass deviates by more than -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. The upper limit of the air mass deviates by more than +30% from the comparative value.  Less than 5 seconds
6	Check prerequisites	- Battery voltage higher than 9 volts Additionally required for the plausibility check: - No error recognized on the loose contact or short circuit on the hot film MAF sensor - Engine running - Mixture adaptation enabled - No fault in throttle valve actual value potentiometer - No fault on the pressure sensor (intake manifold pressure).
7		In cases of plausibility errors, check the grid on the Hot film mass air flow sensor for dirt. The sealing ring between the air filter housing and the Mass air flow sensor must sit correctly. The measurement result will be distorted if fresh air comes in through a gap.  The hot film MAF sensor has an oval housing and 4-pin (production start) or 5-pin plug connector. The electronics and the housing have undergone a number of modifications (please note part number!).

Hot film MAF sensors with the number A 273 094 08 48 and higher provide the engine control unit with an additional signal at a frequency ranging between 17 and 21 Hz (44 to 54 ms). With this so-called ratio-metric frequency signal, the engine control unit compensates for the temperature and voltage influences at the air mass signal. The engine control unit also detects the version of the hot film MAF sensor via the duty cycle.