GF07.07-P-6000P Component description for the hot film mass air flow sensor ENGINE 642 in MODEL 164.1 /8, 203.0 /2, 221.0 /1, 251.0 /1 up to Model Year 2008 ENGINE 642 in MODEL 209.3 /4, 211.0 /2 /6, 219.3 ENGINE 642 in MODEL 463 up to 31.5.12

Shown except code (494) USA version

| B2/6 | Left hot film MAF sensor |
|------|---------------------------|
| B2/7 | Right hot film MAF sensor |



Location

The left and right hot film MAF sensors are located on the intake pipe behind the respective air filter.

Task

The hot film MAF sensor detects the sucked in air mass and the integrated intake air temperature sensor (B2/6b1) and intake air temperature sensor (B2/7b1) detect the intake air temperature.

Function

The electronics in the hot film MAF sensors regulate the constant specified temperature (approx. 160 °C) of the respective heating resistor via a variable voltage. The temperature of the heating resistor is detected via a sensor resistor.

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If a temperature change occurs as a result of increased or reduced air flow, the integrated electronics corrects voltage at the heating resistor until the specified temperature is achieved again. This control current is converted by the hot film MAF sensors into a sensor voltage. The sensor voltage is used by the CDI control unit (N3/9) as a measurement for the sucked in air mass. The intake air temperature is detected via the integrated measuring resistor with negative temperature coefficients (NTC) and transmitted to the CDI control unit as a voltage signal.