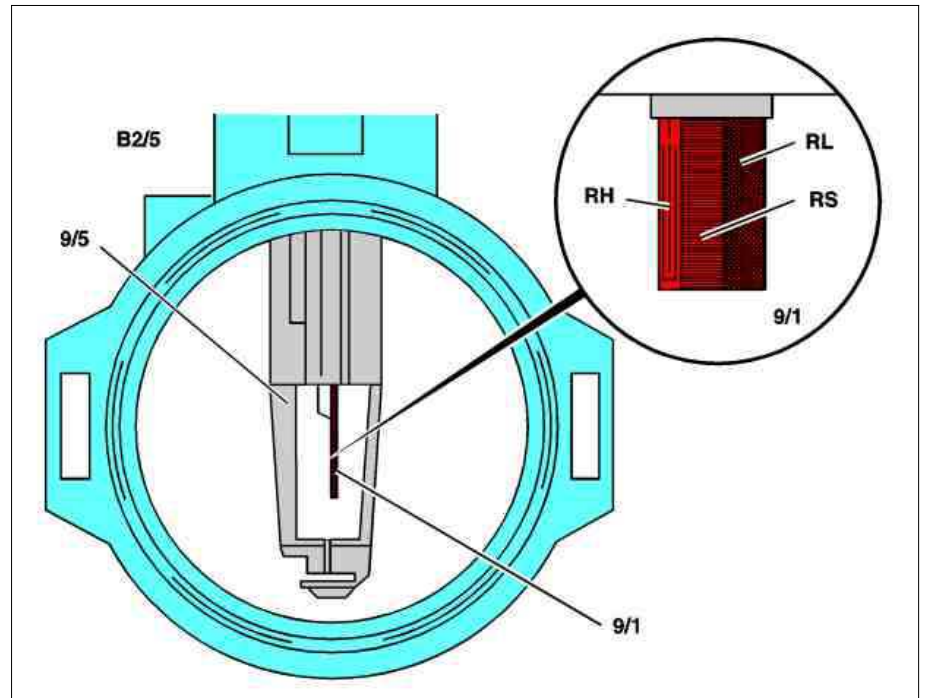


9/1 Hot film sensor  
 9/5 Electronics housing

RH Heating resistor  
 RL Temperature resistor  
 RS Sensor resistor



P07.13-0439-76

The electronics in the hot film mass air flow sensor controls the temperature of the heating resistor ( $R_H$ ) by means of a variable voltage so that its temperature is 160 °C above the intake air temperature detected by the temperature resistor ( $R_L$ ).

The temperature of the heating resistor ( $R_H$ ) is detected by the sensor resistor ( $R_S$ ). If a temperature change occurs as a result of an increased or reduced air flow, the electronics adapts the voltage at the heating resistor ( $R_H$ ) until the temperature difference is again achieved.

This control voltage is used by the engine control unit as a measure for the metered air mass.  
 The intake air temperature is detected by an additional NTC resistor.