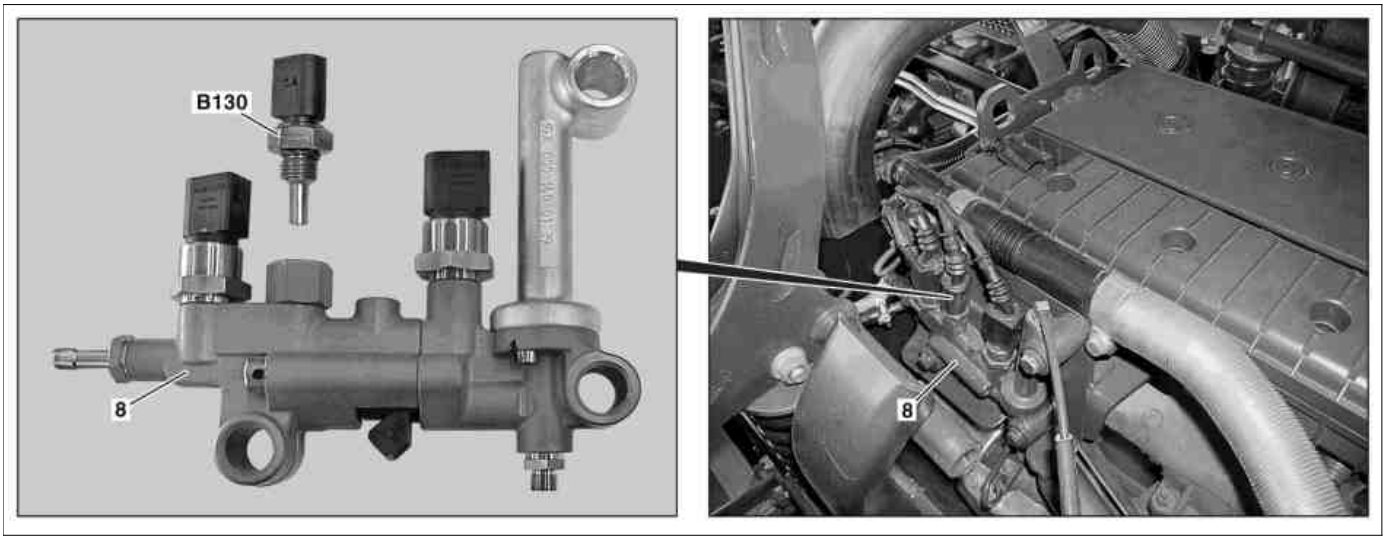
GF14.40-W-3006C	Component description for the SCR AdBlue temperature sensor	8.8.07

ENGINE 900.9 in MODEL 970, 972, 975, 976 with CODE (MS4) BlueTec 4
ENGINE 900.9 in MODEL 970, 972, 975, 976 with CODE (MS5) BlueTec 5
ENGINE 902.9 in MODEL 970, 972, 974, 975, 976 with CODE (MS4) BlueTec 4
ENGINE 902.9 in MODEL 970, 972, 974, 975, 976 with CODE (MS5) BlueTec 5
ENGINE 924.9 in MODEL 970, 972, 974 with CODE (MS4) BlueTec 4
ENGINE 924.9 in MODEL 970, 972, 974 with CODE (MS5) BlueTec 5
ENGINE 902.9 in MODEL 950.5 /6, 952.5 /6, 953.6, 954.5, 957 with CODE (MS4) BlueTec 4
ENGINE 902.9 in MODEL 950.5 /6, 952.5 /6, 953.6, 954.5, 957 with CODE (MS5) BlueTec 5
ENGINE 926.9 in MODEL 950.5 /6, 952.5 /6, 953.6, 954.5, 957 with CODE (MS4) BlueTec 4
ENGINE 926.9 in MODEL 950.5 /6, 952.5 /6, 953.6, 954.5, 957 with CODE (MS5) BlueTec 5



W14.40-1249-08

Illustrated on model 950.5 *8 Metering device* *B130 SCR AdBlue temperature sensor*

Location

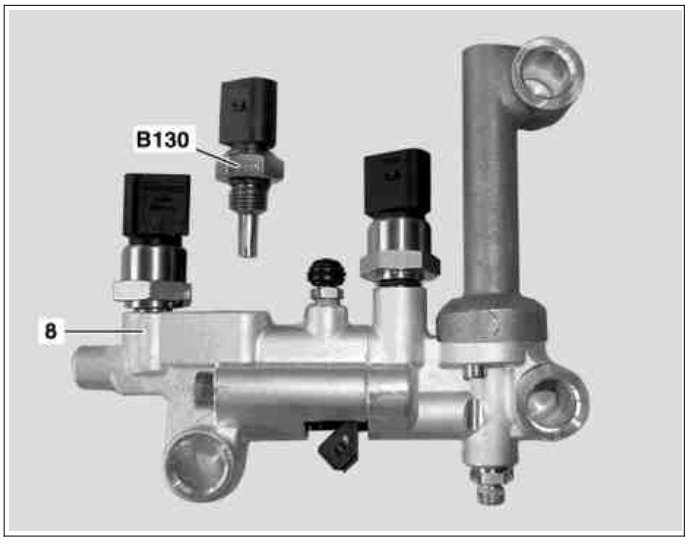
The SCR AdBlue temperature sensor (B130) is installed in the metering device (8) from the outside. This is located close to the rear cylinder head.

Task

The SCR AdBlue temperature sensor (B130) detects the temperature of the AdBlue at a measuring point inside the metering device (8) and passes this information onto the engine control (MR) control unit as an electrical voltage signal.

Design

The SCR AdBlue temperature sensor (B130) consists of a stainless steel housing with a thread and an electrical connector.
The SCR AdBlue temperature sensor contains a measuring element, a NTC resistor. NTC stands for "Negative Temperature Coefficient" and means that the electrical resistance falls as the temperature increases.
The SCR AdBlue temperature sensor (B130) is a passive sensor (i.e., it is not supplied with voltage).



W14.40-1081-11

Function

The AdBlue at the SCR AdBlue temperature sensor (B130) influences the measuring element inside the sensor and thus the size of the electrical resistance. The values of the changing electrical resistance are transmitted to the MR control unit in defined intervals as an analog signal.

Using this resistance values, the MR control unit calculates the associated temperature.