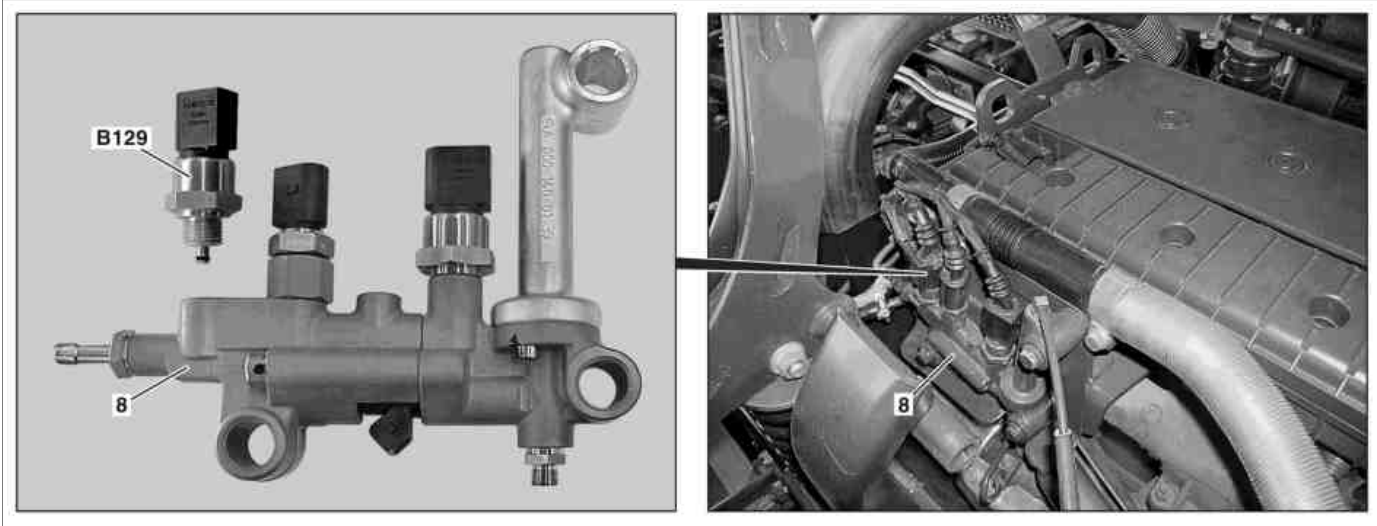


ENGINE	900.9 in MODEL 970, 972, 975, 976 with CODE (MS4) BlueTec 4
ENGINE	900.9 in MODEL 970, 972, 975, 976 with CODE (MS5) BlueTec 5
ENGINE	902.9 in MODEL 970, 972, 974, 975, 976 with CODE (MS4) BlueTec 4
ENGINE	902.9 in MODEL 970, 972, 974, 975, 976 with CODE (MS5) BlueTec 5
ENGINE	924.9 in MODEL 970, 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



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Illustrated on model 950.5
Location

8 Metering device

B129 SCR AdBlue pressure sensor

The SCR AdBlue pressure sensor (B129) is screwed into the metering device (8) from outside. The metering device (8) is located close to the rear cylinder head.

Task

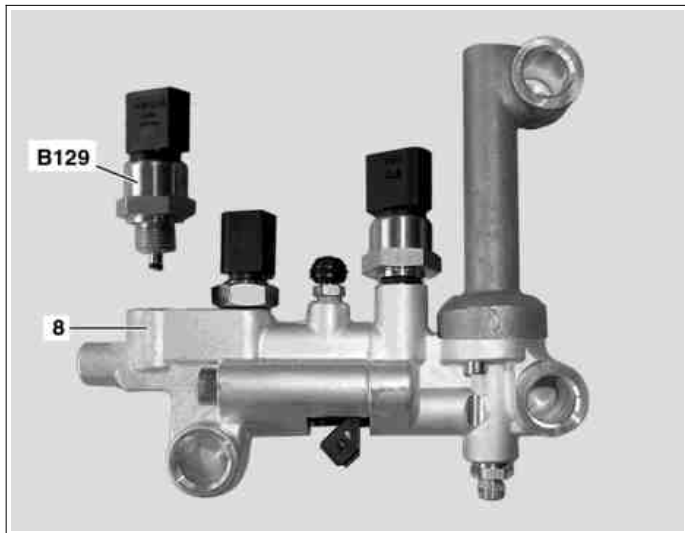
The SCR AdBlue pressure sensor (B129) detects the pressure of the AdBlue at a measuring point inside the metering device (8) and passes this information onto the engine control (MR) control unit as an electrical voltage signal.

Design

8 Metering device

B129 SCR AdBlue pressure sensor

The SCR AdBlue pressure sensor (B129) consists of a stainless steel housing with a thread and an electrical connector. The inside of the SCR AdBlue pressure sensor contains a measuring element, consisting of a silicon membrane, equipped with measuring strips. These measuring strips are electrical resistors, which change their resistance on expansion (piezoresistive principle). The SCR AdBlue pressure sensor (B129) is equipped with a bore hole, through which the AdBlue can penetrate through to the membrane. The SCR AdBlue pressure sensor (B129) is an active sensor (i.e., it is supplied with voltage).



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Function

The AdBlue at the SCR AdBlue pressure sensor (B129) presses on the membrane inside the sensor. This pressure causes the membrane to expand, which causes the electrical resistance of the attached measuring strips to change. As the pressure changes, the expansion of the membrane and the attached measuring strips is increased or decreased.

The values of the changing electrical resistance are transmitted to the MR control unit in defined intervals as an analog signal. Using the resistance values, the MR control unit calculates the associated pressure.