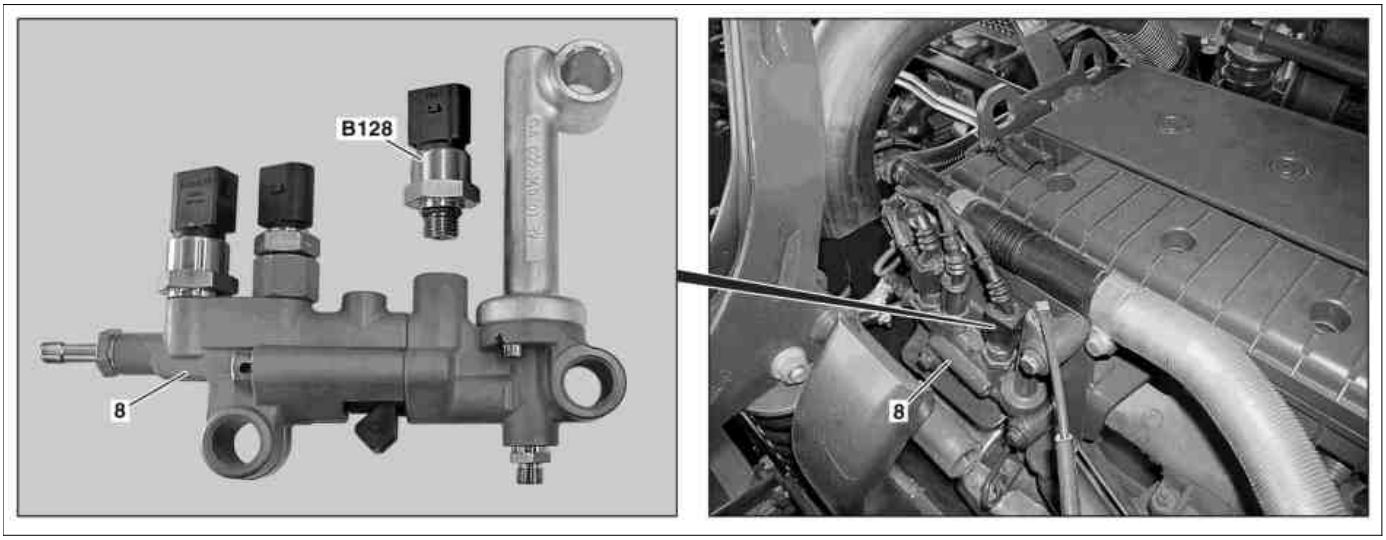
ENGINE 900.9 in MODEL 970, 972, 975, 976 with CODE (MS4) BlueTec 4
ENGINE 900.9 in MODEL 970, 972, 975, 976 with CODE (MS5) BlueTec 5
ENGINE 902.9 in MODEL 970, 972, 974, 975, 976 with CODE (MS4) BlueTec 4
ENGINE 902.9 in MODEL 970, 972, 974, 975, 976 with CODE (MS5) BlueTec 5
ENGINE 924.9 in MODEL 970,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

8 Metering device

B128 SCR compressed air pressure sensor

Location

The SCR AdBlue compressed air pressure sensor (B128) is screwed into the metering device (8) from the outside. This is located close to the rear cylinder head.

Task

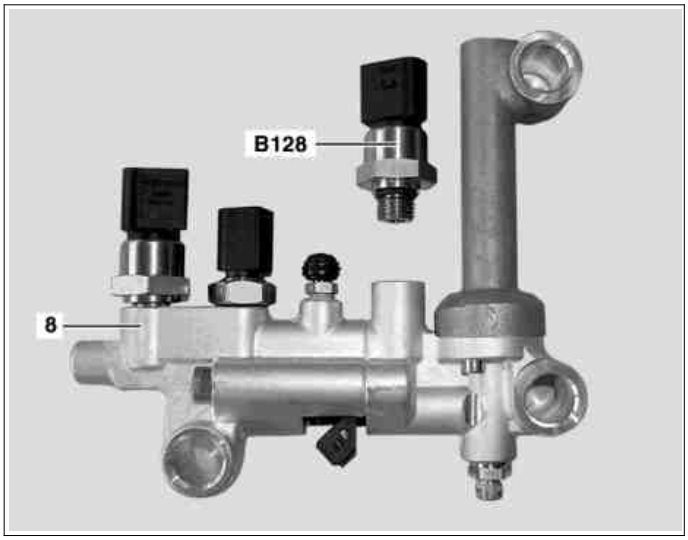
The SCR compressed air pressure sensor (B128) detects the pressure of the compressed air at a measuring point inside the metering device (8) and passes this information onto the engine control (MR) control unit as an electrical voltage signal.

Design

8 Metering device

B128 SCR compressed air pressure sensor

The SCR compressed air pressure sensor (B128) consists of a stainless steel threaded housing 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 sensor is equipped with a bore hole, through which the compressed air can penetrate to this membrane.
The SCR compressed air pressure sensor (B128) is an active sensor
(i.e., it is supplied with voltage).



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Function

The compressed air at the SCR compressed air pressure sensor (B128) 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 of the measuring strips are transmitted to the MR control unit in defined intervals as an analog signal.
Using this resistance value, the MR control unit calculates the associated pressure.