Title (en)

METHOD AND DEVICE FOR CALIBRATING A PRESSURE SENSOR

Title (de)

VERFAHREN UND VORRICHTUNG ZUM KALIBRIEREN EINES DRUCKSENSORS

Title (fr)

PROCEDE ET DISPOSITIF POUR ETALONNER UN CAPTEUR DE PRESSION

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Application

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Abstract (en)

[origin: WO0155573A2] The invention relates to a method and a device for calibrating a pressure sensor (7) of a fuel dosing system of an internal combustion engine. Said fuel dosing system comprises a high-pressure pump (2) that delivers fuel from a low-pressure zone (ND) to a high-pressure zone (HD). The injectors (5) that dose the fuel from the high-pressure zone (HD) into the combustion chambers (6) of the internal combustion engine are controlled according to working characteristics. The dosing system further comprises the pressure sensor (7) that measures the pressure in the high-pressure zone (HD). The aim of the invention is to calibrate the pressure sensor (7) in such a manner that the offset-error can be reduced to a minimum. To this end, the pressure in the high-pressure zone (HD) is used as a reference pressure, the pressure in the high-pressure zone (HD) is measured by the pressure sensor (7) as the sensor pressure and the characteristic line of the pressure sensor (7) is corrected in such a manner that the difference from reference pressure and sensor pressure is reduced to a minimum.

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