

Title (en)

METHOD FOR CALIBRATING A PRESSURE SENSOR IN AN AIR INTAKE LINE OF AN ENGINE WITH COMPENSATION ACCORDING TO TEMPERATURE

Title (de)

VERFAHREN ZUR KALIBRIERUNG EINES DRUCKSENSORS IN EINER LUFTANSAUGLEITUNG EINES MOTORS MIT TEMPERATURKOMPENSATION

Title (fr)

PROCEDE DE RECALAGE D'UN CAPTEUR DE PRESSION DANS UNE LIGNE D'ADMISSION D'AIR D'UN MOTEUR AVEC COMPENSATION FONCTION DE LA TEMPERATURE

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Application

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Abstract (en)

[origin: WO2017134366A1] The invention relates to a method for calibrating at least one pressure sensor positioned in an air intake line of an internal combustion engine, for which said at least one pressure sensor is calibrated with the engine stopped at an initial temperature (T1) by compensating the initial calibration (Cr(T1)) according to the equation $Cr(T1) = P_{cap}(T1) - Pref(T1)$, the engine being stopped, $P_{cap}(T1)$ being the measurement of pressure by said at least one pressure sensor, and $Pref(T1)$ the reference pressure, the measurement of said at least one pressure sensor being calibrated by the initial calibration compensation (Cr(T1)) thus calculated. With the engine running, at a given temperature (T), the calibration compensation (Cr(T)) is adjusted from said initial calibration compensation (Cr(T1)) depending on the temperature (T) of said at least one pressure sensor by a multiplying correction factor.

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