

Title (en)

ELECTRONIC ENGINE CONTROL SYSTEM OF AN INTERNAL COMBUSTION ENGINE

Title (de)

ELEKTRONISCHE MOTORSTEUERUNG EINER BRENNKRAFTMASCHINE

Title (fr)

SYSTEME DE GESTION ELECTRONIQUE DES FONCTIONS D'UN MOTEUR A COMBUSTION INTERNE

Publication

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Application

**EP 00988621 A 20001116**

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Abstract (en)

[origin: WO0138709A1] The invention relates to an electronic engine control system of an internal combustion engine, for controlling a basic mixture quantity of a suitable fuel-air-mixture for the current operating mode according to parameters, between a mixture with a low proportion of fuel, which is lean in relation to the current combustion situation and a rich mixture with a greater proportion of fuel, and for controlling other functions. The engine control system also comprises a fuel quantity adapting device, by which means a predeterminable quantity of fuel can be adapted to the basic mixture quantity prescribed by the engine control system as a fuel increase for acceleration enriching or as a fuel reduction for deceleration leaning and can be suppressed within a certain adapting time (B, V). A Lambda probe is also provided as an O<sub>2</sub>-probe in the exhaust gas stream of the internal combustion engine, and is used to detect a lean mixture, a "lean" Lambda signal being released. According to the invention, if a "lean" Lambda signal is released, the adapted fuel quantity (1, 6) can be additionally adapted by a predeterminable correcting quantity (4, 5) within an adapting period (B, V) by means of a correction unit that is connected to the Lambda probe and to the fuel quantity adapting device, for an acceleration enrichment or a deceleration leaning.

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