

Title (en)
METHOD AND APPARATUS FOR DIAGNOSING A FUEL SUPPLY SYSTEM

Title (de)
VERFAHREN UND VORRICHTUNG ZUR DIAGNOSE EINES KRAFTSTOFFFÖRDERSYSTEMS

Title (fr)
PROCÉDÉ ET APPAREIL POUR DIAGNOSTIQUER UN SYSTEME D'ALIMENTATION EN CARBURANT

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Application
EP 15788063 A 20151103

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Abstract (en)
[origin: WO2016096229A1] The invention relates to a method for testing an electrically activated actuator in a fuel delivery device (10) of an internal combustion engine, wherein the electrical actuator is a controllable valve (15) that is arranged on the inlet side of a high-pressure pump (16). The high-pressure pump (16) conveys fuel into a fuel store (17) having a pressure controller (20). The fuel store (17) is connected to at least one injector (23). The method comprises the following steps: 1) increasing the rotational speed of the high-pressure pump (16), 2) activating the controllable valve (15) until the pressure in the fuel store (17) has reached a first low pressure level, 3) changing the supply of current to the controllable valve (15) by a first specified value such that the controllable valve (15) is opened further and simultaneously maximizing an injection amount by means of the at least one injector (23) until the pressure in the fuel store (17) has reached a first threshold value, 4) activating the controllable valve (15) until the pressure in the fuel store (17) has reached the first low pressure level again, 5) determining a further quantity, which depends on the low pressure level and a maximum value of the pressure that was reached in the fuel store (17).

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