

Title (en)

Method to detect correctly connected lambda sensors

Title (de)

Verfahren zur Prüfung auf korrekt angeschlossene Lambda-Sonden

Title (fr)

Méthode de test des connexions de sondes lambda

Publication

**EP 0860597 B1 20030507 (DE)**

Application

**EP 98102187 A 19980209**

Priority

DE 19706382 A 19970219

Abstract (en)

[origin: EP0860597A2] The method involves testing if Lambda probes are correctly connected in a combustion engine with one or more cylinder groups (2a-2d) which contains a motor control mechanism and several Lambda probes (4a-5d). Each cylinder group is associated over an individual exhaust fume path (1a-1d) with a catalyst and at least one Lambda probe with a connected regulation unit (6). The momentary condition of a Lambda regulation unit of at least one cylinder group is respectively controlled through the motor control mechanism under retention of the injection of a flammable mixture at the beginning of a delay time which contains at least the reaction- or switching time of the probes, towards an increased and/or reduced motor operation. A signal of the Lambda probe associated with the selected cylinder group, is checked whether it shows a reaction to the undertaken manipulation, indicating a correct connection of this Lambda probe.

IPC 1-7

**F02D 41/14**; G01M 15/00; F01N 7/00

IPC 8 full level

**F01N 7/00** (2006.01); **F02D 41/14** (2006.01); **G01M 15/00** (2006.01)

CPC (source: EP US)

**F02D 41/1443** (2013.01 - EP US); **F02D 41/1454** (2013.01 - EP US); **F02D 41/1495** (2013.01 - EP US)

Cited by

EP1898076A1; US7558667B2; WO2007012608A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0860597 A2 19980826**; **EP 0860597 A3 19991215**; **EP 0860597 B1 20030507**; DE 19706382 A1 19980827; DE 19706382 C2 20030306; DE 59808207 D1 20030612; US 6092413 A 20000725

DOCDB simple family (application)

**EP 98102187 A 19980209**; DE 19706382 A 19970219; DE 59808207 T 19980209; US 2585898 A 19980219