

Title (en)

METHOD FOR DETECTING PHASES USING lambda-CHANGE ON ONE OR MORE CYLINDERS

Title (de)

VERFAHREN ZUR PHASENDETEKTION MITTELS LAMBDA-ÄNDERUNG AN EINEM ODER MEHREREN ZYLINDERN

Title (fr)

PROCEDE DE DETECTION DE PHASES PAR MODIFICATION LAMBDA SUR UNE OU PLUSIEURS CYLINDRES

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Application

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Abstract (en)

[origin: WO02081890A1] The invention relates to a method for identifying phases on a multi-cylinder spark-ignited internal combustion engine, which has an even or odd number of cylinders and which is operated by means of an engine management system. The working cycle of the internal combustion engine extends at least over two revolutions. In the event of an unknown phase position, the internal combustion engine is started with double ignition output under the assumption of a phase position. An intervention in the formation of the mixture with regard to a leaning or an enriching of the mixture is carried out at one or more cylinders of the internal combustion engine. The phase position assumed at the beginning when starting the internal combustion engine is verified or falsified based on the detection and changes of the air ratio lambda . In the event of a falsified phase position, an emergency operation of the internal combustion engine with double ignition output is maintained or newly synchronized or resynchronized.

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