

Title (en)

METHOD FOR PRODUCING A SYNCHRONIZATION SIGNAL for an INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUR ERZEUGUNG EINES SYNCHRONISATIONSSIGNALS FÜR eine Brennkraftmaschine

Title (fr)

PROCEDE POUR PRODUIRE UN SIGNAL DE SYNCHRONISATION DU CYCLE DE FONCTIONNEMENT D'UN MOTEUR A COMBUSTION INTERNE

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Application

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Abstract (en)

[origin: WO2009083492A1] The invention relates to a method for producing a synchronization signal (NOCYL) for a four-stroke internal combustion engine with an odd number of cylinders (C1, C2, C3) using an electronic control system (7), the synchronization signal (NOCYL) making it possible to identify a predetermined instant in the thermodynamic cycle of each of the cylinders of the engine and to determine, from a TDC signal identifying a determined position of each cylinder, and from a signal (Cg, Bn) representing a parameter indicative of the crankshaft dynamics generated by each of the combustions, both generated from information from an engine crankshaft position sensor (22). According to the invention, the method involves the following steps: operating the engine for a given period with ignition in the cylinders at each cylinder turn, so as to produce systematic combustion of the injected fuel; calculating the representative signal (Cg, Bn); comparing the signal (Cg, Bn) against a reference value; resetting the synchronization signal (NOCYL) if the analysis of the comparison indicates that the synchronization signal is incorrectly timed.

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