

Title (en)

METHOD FOR DETERMINING A POSITION SET POINT OF A BY-PASS ACTUATOR, INTENDED FOR A TURBOSUPERCHARGER

Title (de)

VERFAHREN ZUR BESTIMMUNG EINES POSITIONSSOLLWERTS EINES FÜR EINEN TURBOLADER BESTIMMTEN BYPASS-AKTUATORS

Title (fr)

PROCEDE, POUR UN TURBCOMPRESSEUR DE SURALIMENTATION, DE DETERMINATION D'UNE CONSIGNE DE POSITION D'UN ACTIONNEUR DE BY-PASS

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Application

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Abstract (en)

[origin: WO2010112718A1] The invention relates to a method intended for a turbosupercharger (1, 11) of a heat engine (4) including a turbine (2, 12), a compressor (3, 13) and a by-pass actuator (15, 16) which can be used to control an air flow (Wact) that does not pass through the turbine (2, 12). The method includes a step consisting in determining a position set point (asp) of the by-pass actuator (15, 16) as a function of a compression ratio set point (PRc,sp), a compression ratio measurement (PRc,m), a measurement of the rate of flow (Wc,m) through the compressor (3, 13), a measurement of the pressure Pdt downstream from the turbine (2, 12), a measurement of the pressure Pdc downstream from the compressor (3, 13), a measurement of the temperature Tut upstream from the turbine (2, 12), and a measurement of the temperature Tuc upstream from the compressor (3, 13). The invention can be used to control a supercharging device with a single or dual turbocharger.

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Citation (search report)

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