

Abstract

DEVICE AND METHOD FOR CONTROLLING FUEL INJECTION AMOUNT OF
INTERNAL COMBUSTION ENGINE WITH TURBOCHARGER

It is checked whether or not a supercharged pressure P_b becomes equal to or greater than a predetermined value P_0 to judge whether or not a mechanism for adjusting the supercharged pressure is failed. When it is judged that the mechanism for adjusting the supercharged pressure is not failed, the fuel injection quantity T_p of normal time is computed based upon the engine operation condition. When it is judged that the mechanism for adjusting the supercharged pressure is failed, on the other hand, the fuel injection quantity T_p of failed time is computed, which is smaller than the fuel injection quantity of normal time. The fuel injection is then controlled based upon either the computed fuel injection quantity T_p of normal time or the computed fuel injection quantity T_p of failed time. In case the mechanism for adjusting the supercharged pressure is failed, therefore, the fuel injection quantity is decreased to decrease the torque that is produced, to thereby control the supercharged pressure to be less than an allowable upper limit.

FIG. 1



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