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The imitating model of an frequency electronic regulator of rotation of high-speed diesel engine an automobile diesel engine with the distributive fuel pump of Bosch company is resulted. Is executed simulation transitive modes of a diesel engine with mechanic and electronic regulators. Deterioration influence plungers steams on dinamic and economic indicators of a diesel engine is analysed. Operational indicators of a diesel engine with mechanic and electronic regulators are compared. The obtained data allows to estimate fuel consumption, dispersal time, soot allocation in transients of automobile diesel engines with fuel pump, equipped with regulators of various type. Il. 4. Bibliogr. 9 names.