

Method for controlling the angle of the forward slip of ignition where are performed control of the engine crankshaft position, control of the upper idle point (u.i.p) of the first cylinder at the phase of expansion, with setting the dynamical regimes of the engine work, loading regimes, characteristics of fuel; and with obtaining the ignition pulses that are distributed over the working cylinders of the engine. Unit for implementation of the method includes controller, this has input ports, output ports, sensors: of the origin, of the control pulses, temperature, position of the carburetor throttle slide, position of the air slide; additional sensors; switchboard, ignition coils, spark-plugs, carburetor electromagnetic valve, tooth of the origin, teeth of control pulses; sensors are connected to the ports of the controller input, and the inputs of the switchboard and electromagnetic valve of carburetor – to the output ports; switch with its outputs is connected to the ignition coils that are connected to the spark-plugs installed on the working cylinders of the engine. Controller has scaling integrator of the sensor signals, PID-controller, computing unit; scaling integrator with its inputs is connected to the ports of the input of the controller, and with the output – to the input of the PID-controller, this, is its turn, is connected to the input of the calculating unit, and the calculating unit with its output – to the ports of the controller output.