THE EFFECT OF HHO GENERATOR ADDITION WITH SERIES AND PARALLEL GENERATOR VARIATION ON PERFORMANCE OF HONDA SUPRA X 125 PGM-FI

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ABSTRACT

HHO gas is a gas that can assist combustion in motor vehicle engines, gas is produced from the electrolysis process in the HHO generator that uses a series of tubes HHO HHO tube series and parallel circuits. In the present study aims to test the generator using stainless steel plate electrodes, using the HHO generator circuit series and parallel, where a series circuit consisting of fruit tiga3 tube that results in the production of HHO gas into the first tube a second tube, and the production of the second tube into the third tube, the third tube is passed into the production watertrap and into the engine, it is different with a series of parallel remain parallel to the circuit using three tubes and the production of the three generators in the stream toward watertrap and into the engine Research carried out experiments using the machine Honda Supra 125 PGM-FI 125cc loading injection of water with the installation of the HHO generator tube series and parallel circuits consisting of several components, namely the HHO generator tubes, electrodes, and the KOH electrolyte solution of 0.7 grams. In this case using a stainless steel plate with a size 6 x5,5cm,In getting the generator circuit is a series of good-producing HHO gas engines used on Honda Supra 125 PGM-FI and able to enhance the performance of a gasoline engine, generator HHO series circuit causing a 19% increase in power, torque by 15% and 18% bmep SFC and decreased by 25%, while the variations of HHO generators parallel circuit causing a 14% increase in power, torque by 11%,
and bmeq by 14%, 20% reduction in sfc. with the addition of HHO generators in series engines Honda Supra 125 PGM-FI will improve engine performance, fuel economy and reduce emissions from motor vehicle exhaust on otto.

**Keywords:** HHO generator, electrodes, electrolysis, engine performance, fuel economy, exhaust emissions.