The Effect of Using After Market ECU and Ignition Booster On Motor Performance

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ABSTRACT

This study was to determine the effect of using After Market Ecu and the use of Ignition booster on performance with torque and power values on motorcycles. This research uses the experimental method, which is a research method that is used as a test of the impact caused by one treatment, torque has increased from 5000 to 7000 rpm engine speed by using standard ECU variations and ignition booster, while the After Market ECU variation test has increased testing from 5000 to 9000 engine speed. Then the highest max torque is generated from the use of After market ECU and Ignition Booster which The combined condition increased by 7.94%, namely 18.13 Nm from the standard condition of 16.69 Nm. while the power test has increased by 3.1% using the After Market Ecu and ignition booster, which is 19.3 hp from the initial 18.7 hp condition, but the standard ECU and ignition booster variations have decreased from the standard condition with a percentage of 1.08% 18,5 HP from the initial condition of 18.7 HP, but the use of the After Market ECU variation has the same value as the combination with Ignition Booster, which is an increase of 3.1% by 19.3 HP from the standard condition of 18.7 HP. Based on the results of torque and power testing, it shows that the use of a booster ignition does not increase performance at engine speed of 7000 and above.

Key Words: Ecu after market, Ignition Booster, Power, Torque