

**Pengaruh Pemasangan *Exhaust* Elektromagnet Terhadap Emisi Gas  
Buang Pada Motor Bensin 4-Tak**

*Effect of Instalation Exhaust Electromagnet to Gas Emission for Four Stroke  
Gasoline Engine*

**Ryan Hermawan**

**Automotive Engine Study Program**

**Majoring of Technique**

Program Studi D4 Mesin Otomotif

Jurusan Teknik

***ABSTRACT***

*Pollution in Indonesia is apprehesive, vehicles motor contribution polution 60%-70%. Exhaust electromagnet is alternative tool to emissions control vehicles. This research aims to know the percentage CO, CO<sub>2</sub>, HC, O<sub>2</sub> effect instalation exhaust electromagnet will then be calculated voltage and current used. Experimental method will be use during this research. The research at State Polytechnic of Jember during 31 January – 1 October 2017. Results from this study show that instalation exhaust elektromagnet for gas emissions CO<sub>2</sub> decrease on rpm 1500 dan rpm 7500. Can be seen on rpm 1500 emissions CO<sub>2</sub> testing standard is 7,97 % vol, power supply tunggal 7,33 % vol, power supply 2 paralel 7,33 % vol, power supply 3 paralel 6,97 % vol. On rpm 7500 emisi CO<sub>2</sub> testing standard is 6,97 % vol, power supply tunggal 6,70 % vol, power supply 2 paralel 6,30 % vol, power supply 3 paralel 6,00 % vol.*

**Keywords:** *Exhaust Electromagnet, Voltage, Strong Current , Exhaust Gas Emissions.*