

## **ABSTRACT**

*Technology development is faster, mainly in the automotive field. Power steering is electric steering system assisted by the electric motor. The author makes power steering electric trainer due to lack of availability of practical tools, electric power steering.*

*Auxiliary electrical energy in the steering (EPS/EPA) or motor-driven power steering (MDPS) uses an electric motor to help the driver of a vehicle. The sensor detects the position of steering columns and torque. Then, the module's computer sends a signal from the sensor to the torque of an electric motor, electric motor in connect to the main shaft, so that the wheel becomes lighter.*

*All the components of the electric power steering is trainer in good condition and functioning, but there is one component that is not yet available, namely electrical control module. the author appealed to the development of this tool, then addition an electric control module in order to perfect the electric power steering system.*

**Keywords : ECU, motor electric, safety driving**

## Intisari

Perkembangan teknologi semakin pesat, terutama dalam bidang otomotif. elektrik power steering adalah sistem kemudi yang dibantu oleh motor listrik. penulis membuat trainer elektrik power steering karena kurang tersedianya alat praktikum elektrik *power steering*.

Kemudi di bantu energi listrik (EPS / EPA) atau *Power Steering* (MDPS) menggunakan motor listrik untuk membantu pengemudi memutar kemudi. Sensor mendeteksi posisi dan torsi kolom kemudi. Kemudian, modul komputer mengirimkan sinyal dari sensor torsi kepada motor listrik, selanjutnya motor listrik di hubungkan ke poros utama, sehingga kemudi menjadi ringan.

Semua komponen trainer elektrik power steering dalam kondisi bagus dan berfungsi, tetapi ada satu komponen yang belum tersedia yaitu elektrik *control modul*. penulis menghimbau untuk pengembangan alat ini, selanjutnya ditambahkan elektrik *control module* guna menyempurnakan sistem elektrik *power steering*.