

IMPROVEMENT OF AUTO BODY AND ELECTRICAL SYSTEM INSTRUCTIONAL MODEL

Undergraduate Design Project
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Major in Automotive Technology

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ABSTRACT

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Auto body is the body shell that has a fairly complex assorted of large steel section. These will be stamps into specific shapes which make the body of the car. These parts are design to do many jobs to protect the passengers from the element and in collisions which provide solid mounts for all the systems.

The electrical system in a motor vehicle provides electricity to start the engine, ignite the fuel, operates the lights and windscreen wiper, air conditioner, radio and other accessories. Each cars has more than a mass of gears, knobs and bolts. It is poetry in motion, and like living organism, each part must function efficiently. Like the body's nervous system, the electric system of a vehicle sends signals for car parts to function effectively whether it is starting system, auto electrical accessories.

The study was focused on the design, construct and improvement of auto body and electrical system instructional model solve the sufficient ability and knowledge in proper installation in actual vehicle. Converting auto body from car to owner type jeep provided less maintenance and made user friendly.

Organizing auto body electrical wiring had provided easy wiring practice rather than a usual auto body electrical wiring system this enhance the skill and knowledge of the student not only in parts familiarization of auto body electrical wiring but also performing hands on activities specially in trouble shooting and diagnosing the problem.

The structure of auto body and electrical wiring system instructional model was filled with galvanized iron sheet. The planed dimension of the design project was 165" x 62" x 65". First step was prepared all the materials and equipment to be used. Then the galvanized iron sheet was cut according to the design project dimension. Installation all the components of electrical wiring system of the trainer for the learners and completely tightened and stable during operation.

The design project was proven and tested by the evaluators, instructors and students that is efficient and use for their functionality. The statement was based to the result of the evaluation which got an overall mean of 4.30 corresponding to degree level of outstanding. So the design project was proven in a good condition and all the operation, components and parts of the engine was function normally.

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