FABRICATION OF VEHICLE SAFETY USING POWER WINDOW MECHANISM

Abstract:

This Power window apparatus project main purpose is to train final year student for hands on experience and to work by their self. The study of manufacturing is very important to ensure student understand the requirements to do in this project. This project is about designing and fabricating the Power Window Apparatus for experimental use to help the students in a Automotive class for easy understand if the basic system of power window and how it works. This project involves the process of designing the test panel by considering the shape and also the advantages for student to use in their learning process. After the design has completed, it was transformed to the real product by fabricating process. This project also required analysis to test the power window operation failure factor. Numerous methods and process involve in this project for instance joining using welding process. After all the process have been done, this power window apparatus help us to understand the fabrication and designing process that involved in this project.

Synopsis - The project involves designing and fabricating a Power Window Apparatus (Frame Type). This power window apparatus would be entirely

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use for learning and educational process. As the Diploma final year project allocates the duration of 1 semester, this large man-hour project therefore requires significant efforts of the students to participate. Basically the entire Power Window Apparatus could be divided into 3 stages, which are concept review and development, designing and fabrication. The Power Window Apparatus is equipped by using all necessary items and method for instance sheet metal, rectangular hollow steel, skills in manufacturing process by perform arc welding to joint the parts and etc. The advantages of the power window apparatus to be developed can be seen in its flexibility to be moved such that, man are offered to make their task easier since the apparatus to be used in class. The process of development is initiated from designing the shape of the apparatus panel by considering the strength as well. In order to produce user friendly product that is suitable to the consumer or the user, consideration to the ergonomic factor is taken into account. It involves the measurement process before the materials are cut into pieces before joined together.