

# THE APPLICATION OF POWER WINDOW SYSTEM ON THE 1995 DAIHATSU ESPASS

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## ABSTRACT

The purpose of this Final Project is to design, apply, and determine the performance of the power window application on Daihatsu Espass. Power window serves to opening and closing the window glass. Power windows simplify and improve convenience for users of vehicles.

Design process included the preparation of tools and materials, the selection of types of power window regulators, power window motors design placement. The design modifications include: designing a new seat power windows, power window regulators modification, electrical circuit design and placement of cables. Planning performance testing include: power windows work observation, comparing the velocity of the glass Daihatsu Espass once installed power windows with the velocity of the glass Toyota Avanza which had been equipped with power windows from a manufacturer, measure the voltage and current requirements, compare the power windows.

The test results of the application of power window glass is the velocity of the results obtained an average speed of opening and closing the window glass Daihatsu Espass faster than the Toyota Avanza. The difference in speed can reach 0.021m/s. While in the middle of the door opening speed glass lid Daihatsu Espass lower than the Toyota Avanza. The difference in speeds of 0.025m/s. Power window motors power the front door Daihatsu Espass lower than the Toyota Avanza difference reaches 8, 38 Watt. Power window motor power the central door Daihatsu Espass higher than the Toyota Avanza, the difference reaches 46, 21 Watt. The driver can move the glass door the other side when driving alone.