

**DESIGN AND FABRICATION OF TESTING EQUIPMENT FOR THE POWER  
WINDOW SWITCH**

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In the name of ALLAH,  
The Compassionate, the Merciful,  
Praise be to Allah, Lord of the Universe,  
And Peace and Prayers be upon,  
His Final Prophet and Messenger.

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## **ABSTRACT**

Durability is capability of withstanding wear and tear or decay. And durability limit is the limit where the object cannot stand the tear. And this limit is very important to determine the durability of power window switch. In order to determine the durability limit, some device had been constructed to test this limit for power window switch. Since the pneumatic mechanism is most convenient system compared to others, it has been chosen as a basic system in this project. Generally this project is according to the Mitsubishi specification Es-x34000 which is collaboration between Faculty of Mechanical Engineering (FKM) and Delloyd Venture Berhad.

## TABLE OF CONTENT

<b>CONTENT</b>		<b>PAGE</b>
TABLE OF CONTENT		i
LIST OF FIGURE		iv
<b>CHAPTER 1</b>	<b>INTRODUCTION</b>	
1.1	LITERATURE REVIEW	1
1.2	OBJECTIVE OF PROJECT	2
1.3	SCOPE OF PROJECT	3
1.4	METHODOLOGY	3
<b>CHAPTER II</b>	<b>AUTOMOBILE PART</b>	
2.0	Introduction	5
2.1	Automobile parts	7
2.2	Power window	10
	2.2.1 Window circuit	11
	2.2.2 Circuit control	12

## **CHAPTER I**

### **INTRODUCTION**

This chapter is intended to discuss the general information, objective, literature review, problem statement and methodology of the project.

#### **1.1 Literature review**

Delloyd Venture Bhd. has been a vendor for automotive parts for six car manufacturers. They are proton, Daihatsu (M) Sdn. Bhd, Ford Malaysia, UMV Toyota motor, Honda Malaysia and Hyundai Malaysia. Delloyd had produced many high quality car components and accessories among others; they include side view mirror, power window, wheel cover, gear knob, lamp, door, alarm system. In 2005, Gen2 a new car model was release by proton. Base on previous record Delloyd was offered a contract to manufacture most of Gen2 components and accessories one of the components is the side vies mirror system. And to manufacture this device many testing