

PIC - DIGITAL CAR SERVICE INDICATOR

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ABSTRACT

This project is about the development of car service duration indicator using PIC and LCD display. Nowadays, many car users are busy with they work, they sometimes forgot to service their car constantly. It became serious when there are not familiar with the basic maintenance car especially for new car user. The given instruction manual by car's manufactures became useless because nobody use it as a guideline. Thus, a system is required to alert the user how to maintain their car especially the correct time to change their engine oil, brake fluid, air filter, radiator coolant, transmission oil, battery water and timing belt. The data was taken from Produa Service Center and put in PIC's memory. The system is designed to help users by giving them the right information and way about their car maintenance. Liquid Crystal Display (LCD) will display the types of services that user needs after reaches a certain distance.

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CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

Car is one of the moving machineries. It needs to be serviced regularly. The owner of the car can save their money and have great journey when they service their car regularly. Regular maintenance can ensure the safety, reliability, drivability, comfort and longevity of a car. The owner of the car needs to know the basic maintenance for their cars. They should know when they need to check and change the engine oil, engine oil filter, brake fluid, fuel filter, timing belt, power steering fluid and others [1].

To keep the car in good condition, users should read the automotive manual book and pay attention to the maintenance schedule provided by the car manufacturer. Following this schedule will ensure the car runs well, remains in a good condition and lasts for a very long time. Sometimes car owners forget to service their cars when they need to be serviced. The car manufacturer recommendation is very important for user. The user needs to follow the instruction given. The engine is designed to suit the car's applicability.

The most important thing that the owner needs to pay attention is the maintenance schedule of the car, thus a system is required to alert the user when certain part is ready to change. In this research, Produa car is choosing [2]. Table 1.1 below show the list of maintenance interval for Produa car's.