

AUTOMOTIVE COOLING SYSTEM

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ABSTRACT

Cooling fan is a project that is made for solving heat problems in a vehicle. By using this device, heat in the vehicle can be reduced automatically. The idea for designing this product came when majority of car users always complained about the high temperature in their car when they parked their car in the direct sunlight and hot environment for long period of time. Therefore we decided to design this automotive cooling system to give comfort to users when they enter their car. Exhaust fan is used to inhale the warm air in the car when heat sensor detected the high temperature. When the temperature reach the setting point, the control circuit will activate and the cooling fan will operate to remove the warm air out of the car through a hose that is located below the bonnet of a car.

CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION TO COOLING FAN

As we all know, it was very difficult for car users to park their car at roof park areas or cloudy areas. Therefore they do not have any choice than park their vehicle at the open space that exposed to the direct sunlight during the day. The temperature in the car will be significantly higher than the outside temperature. When the users enter their cars that have been park in the heat for certain period, usually they will open the window to allow the hot air to escape. In the mean time, sudden change of temperature may cause headaches, sweating, dizziness and discomfort.

To overcome this problems, we have designed this cooling fan to remove the heat that builds up in the car cabin by exhausting the warm air to the exterior through pressure relieve vent located in the boot. The resulting pressure difference in the car cabin causes air replacement to take place. This will allow the car users to breathe.