



FINAL REPORT 2
DIPLOMA IN ELECTRICAL ENGINEERING
FACULTY OF ELECTRICAL ENGINEERING
UNIVERSITI TECNOLOGY MARA
13500 PEMATANG PASIR
PEMATANG PAUH
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KNIGHT RIDER LAMP

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Abstract

The star of the famous TV series Knight Rider used a super computerized car which had a front display of five light flashing one by one from left to right and then from right to left. It also had sound effect of five tones that came one by one with the flashing of the lights.

Several circuits are available for the flashing action, but none of them (even the commercial ones) produces the sound effect. The circuit described here can do that too. Square wave is generated from IC1, a 555 timer, which is fed to pin 14 of counter IC2. IC2 is an IC4017 counter which accepts square wave and gives ten mutually independent outputs.

The outputs, using rectifiers, produce the effect of bulbs flashing from left to right and then right to left. These outputs are fed to pin 3 of another timer IC which gives the sound effect.

Acknowledgement

Needless to say, great pains have been taken in preparing this paper work as well as the project itself. The modifications, corrections and additions made by the lecturer and friends have been included while amendments by the references itself have also been incorporated

This project has been the attempts at making each project as error-free and comprehensive as possible. We wish to thank those individuals especially Encik Murad our beloved supervisor, who had given us guidance and showed us to make this electronic project a success. Not for getting, thanks would express our deepest for giving us the opportunity to use their reference books for our project and paper work. Also we like to thank to our friend who had to cooperate with us when helping us preparing the materials.

With this project, could give us the knowledge on how to produce the 'Knight Rider Lamp', especially for the future trends I hope that our project will be useful for other students who are taking this project in future.

1.0 Introduction

This project divided three part input , integrated circuit ,and output. The source uses a battery. In the integrated circuit consist IC 555 (Timer), IC 4017 (Counter), capacitor, resistor and transistor (NPN) The LED's (light emitter-diode) acted as an output.

This project stating by introducing some underlying concepts that are a vital part technology. This project is an inspiration for light system. Nowadays, versatile light like night rider light and many others are commonly used for some cars to give interesting look for their cars. The night rider light project is base on a famous TV series "Knight Rider". Knight Rider used a super computerised car which had a front display of five lights flashing one by one from left to right and from right to left.

This project also included sound system. The sound effect of five tones that came one by one with the flashing of the light.

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