

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

DEVELOPMENT OF AUDIO AMPLIFIER  
AND EQUALIZER

E.1287

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## SUMMARY

Title: Development of Audio Amplifier and Equalizer

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This project deals with the development of an Audio System (an amplifier and a five band equalizer) suitable for car use. A number of different circuits were carefully studied and considering their specifications and some modifications made. Some circuits were selected with some criteria. After the selection, the +ve film and the p.c.b. were developed, the components were located in the appropriate locations and a test was followed to carry out all the different response of the circuits. A +12V/-12V and +15V/-15V supply is also constructed and tested in order to complete the needs of the project.

The characteristics of the circuits used are:

- a. An Audio Amplifier 2x20 Watts
- b. A five band graphic Audio Equalizer

The project also includes:

- The appropriate explanations and specifications of each the different circuits of the audio system.
- A briefly explanation for the components used in the circuits, considering their use and their characteristics.
- The characteristics of the Ics used, their internal circuits, and some other applications that are given by the manufacturer.
- A complete testing of each of the two circuits.

It is almost certain that if someone reads this project will gain a lot of experience and information that are good to know.

# CONTENTS

ACKNOWLEDGMENT

SUMMARY

INTRODUCTION

## CHAPTER 1

1.0 VARIOUS TYPES OF AUDIO AMPLIFIERS

## CHAPTER 2

2.0 SELECTION OF THE CIRCUIT AND SPECIFICATIONS

2.1 SELECTION OF THE AMPLIFIER CIRCUIT

2.2 SELECTECT POWER AMPLIFIER SCHEMATIC CIRCUIT

2.3 TECHNICAL SPECIFICATIONS

2.4 THE IC

2.5 CIRCUIT OPERATIONS

2.6 CIRCUIT CONSTRUCTION

## CHAPTER 3

3.0 TESTING OF THE POWER AUDIO AMPLIFIER

3.1 FREQUENCY RESPONSE CHARACTERISTICS

3.2 FREQUENCY RESPONSE CURVE

3.3 TROUBLE SHOOTING THE AUDIO AMPLIFIER CIRCUIT

3.4 LIST OF COMPONENTS

3.5 SUMMARY

**CHAPTER 4**

4.0 VARIOUS TYPES OF AUDIO EQUALIZERS

**CHAPTER 5**

5.0 SELECTION OF THE AUDIO EQUALIZER CIRCUIT

5.1 SELECTED AUDIO EQUALIZER SCHEMATIC CIRCUIT

5.2 TECHNICAL SPECIFICATIONS

5.3 CIRCUIT OPERATION AND SPECIFICATION

5.4 CIRCUIT CONSTRUCTION

**CHAPTER 6**

6.0 TESTING OF THE AUDIO EQUALIZER

6.1 FREQUENCY RESPONSE CHARACTERISTIC

6.2 FREQUENCY RESPONSE CURVES

6.3 TROUBLESHOOTING THE AUDIO EQUALIZER CIRCUIT

6.4 LIST OF COMPONENTS

6.5 SUMMARY

6.6 CONCLUSION