

AUTOMATIC TELEPHONE CONVERSATION RECORDER

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ABSTRACT

The title of this project is Automatic Telephone Conversation Recorder. The basic requirement for the project is to expect to talk over the phone and the conversation should be successfully recorded over cassette. Besides, a circuit is required to build in order to switch on and switch off the tape recorder automatically while the handset is lifted and replaced. In addition, I have made my circuit to detect problems occur and give a warning sound if tape recorder is not run on when handset is lifted and tape recorder is out of cassette.

The system consist of an automatic turn on//off circuit, problems detector circuit, telephone and a tape recorder. The heart of this project is the **automatic turn on/off circuit**. During the telephone's on-hook situation which means the handset is replaces, the relay in this circuit was not energized and causes the tape recorder s not turn on. Once the user pick up the handset, the **relay** will be energized and turn on the tape recorder. The difference between handset lifted and replaced is determines by a **zener** diode which will decide whether allow the voltage across it or either. Two types of problems should be detected as well. I did it by using two components which are relay and **push-off button**, a beep sound is given if these errors are detected by a **buzzer**.

Overall, this project was successfully implemented and has achieved all specifications required.

Keywords: automatic turn-on/off, Relay, Zener Diode, Push-off Button, Buzzer.