

Maintenance Manual

Wiring and Schematics

- **Button Connections:** Details of each button's connection to the microcontroller.
- **Toggle and Slider Wiring:** Clear schematics showing their positions and connections.
- **Emergency Button:** Highlighted connections for priority recognition.
- **Volume Knob and Speaker:** Connections to the microcontroller and amplifier circuit.

Code Explanation

- **Overview:** Explanation of the main functions and their purposes.
- **Key Sections:**
 - Button press logic.
 - Sound mapping to SD card files.
 - Volume adjustment mechanism.
 - Slider state detection and sound triggering.

Maintenance Steps

1. **Routine Checks:**
 - Inspect wiring for loose connections.
 - Test each button, toggle, and slider for proper functionality.
2. **Repair Guidelines:**
 - Follow the provided schematics to replace faulty components.
 - Update code by following the documented structure.

Open Source Principles

- Share improvements or fixes on the provided repository.
 - Document any changes made to assist future users.
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