Bozman Garage Door Keypad V15.7

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# Construction Notes:

The keypad led is placed in one of the corners of the KP-23 keypad. The hole should be 3mm and the led should be glued in place to prevent water intrusion. Suitable wiring will be needed to take the 3 connectors back to the circuit board on the inside wall.

The Piezo buzzer should be glued to the bottom backside of the KP-23 keypad. You may have to experiment to place it in such a way that the sound is not blocked and it does not interfere with the attachment of the keypad to the outside wall. The wiring for this will also have to be run back to the circuit board.

The connection for the garage door is polarity sensitive. Please pay close attention to making sure that you connect the positive wire to the correct marked position on the PCB.

I made my PCB with the Laser Printer iron technique. Here is a [link](http://www.instructables.com/id/Cheap-and-Easy-Toner-Transfer-for-PCB-Making/) to the procedure for those who are new to this inexpensive way to create prototype PCB’s.

Please feel free to tackle this task in any fashion you wish. I have included my Eagle files to get you started. Please modify them as you see fit.

The Arduino code has been controlling my garage Door now for over a year so it is quite robust. You will also need to download a third party ‘include’ file called ‘keypad.h’. It can be found [here](http://playground.arduino.cc/Code/Keypad).

Please feel free to modify any of the code to suit your needs. I would be pleased to hear back from anyone who attempts this project. If you wish to use any other keypad you will have to figure out the mapping of the keys and refigure the references in order to use it properly.

Good Luck!

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