

Mark's Haunted Garage

<http://www.markshauntedgarage.com/halloween/techinfo/cdhack.php>

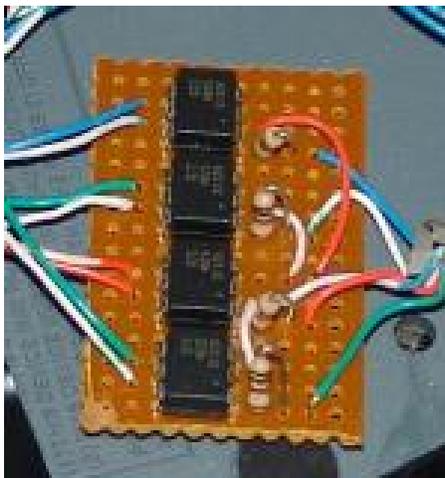
Hacking a CD player



Take the CD player apart and find the solder joints of the various buttons (play, stop, etc.). Solder a wire to both sides of the button. By doing so, if you touch the other ends of the two wires together, it's as if you pushed the button.



From there, solder those wires to the transistor side of an optoisolator. The important thing to remember here is that polarity matters. You need to determine which wire is positive and which is negative so that you can hook it to the transistor properly. If you do it backwards, it won't work, although I don't think it will hurt anything. Use a voltmeter for making this determination.



The LED side of the opto gets a 1K resistor. Apply 5V (or 12V or whatever you have; if using more than 12V, you might want a bigger resistor) to the resistor/LED circuit, and the corresponding button is "pressed". I typically wire up play, stop, FF, and rewind in this fashion. This way, my PIC has complete control over the CD player.

The picture here shows the 4 optos, one for each of the buttons.



Drill small holes in the case of the CD player to run the wires through.



To connect the CD player to the PIC, I use a 5-pin DIN connector. This provides one pin for each button, plus one for ground. This type of connector makes it quick and easy to connect and disconnect the CD player to a controller.

Obtained from
Omarshauntedtram.com