

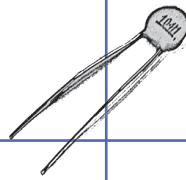
How to Make a Lie Detector

The Interrogator 3000

Based on the one from www.sciencetoymaker.org

By Dewey Mac

Steps:



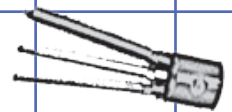
Tools:

 a gluestick and a thumb tack

Parts:

- 82K Ω Resistor
- 4700 Ω Resistor
- 3906 Transistor
- 3904 Transistor
- .01 mfd Ceramic Disk Capacitor
- 9 Volt Battery Clip
- 9 Volt Battery
- 2" 8 Ω Speaker
- 18 Gage Solid Wire
- Red, Green, Black, and White Alligator Clips
- Junk Mail
- 2 Paper Clips

1. Cut out the circuit
2. Fold it over on the fold line and glue each side to a piece of card stock. Junk mail works great.
3. Use a thumb tack a poke a hole on every black dot.
4. Add the correct component to your circuit board. Make sure that the flat part of the transistors faces you, that you don't mix up your resistors and transistors, and that the resistors are facing the correct way (their colors align with the ones listed).
5. Add your short jumper cable (only a few inches long) and your touch cables. Make sure each end is stripped.
6. Follow the back of the circuit board and twist together the components based on the picture.
7. Add your alligator clips. The green should connect to the positive (+) terminal of the speaker, red to the positive (+) terminal of the battery holder, and the two black wires should connect to both negative (-) terminals on both the battery holder and speaker.
8. Wrap the touch wires around a marker to give them a cool spiral look.
9. Twist the end of the touch wires around the paper clips.
10. Connect the battery for a quick moment to test the circuit. If it doesn't work disconnect the battery so you don't burn out the transistors. If you don't hear a beep, something is wrong.
11. Put your subject's pointer fingers in the two paper clips.



Dewey Mac is a child detective that builds his tools to solve crimes. To read about his adventures and learn how to make more cool projects check out:

www.deweymac.com
www.facebook.com/deweymacbook
@DetectiveInvent

