

Q'S GADGET LAB: MAKER PROJECT

SPY ALARM

YOUR MISSION:

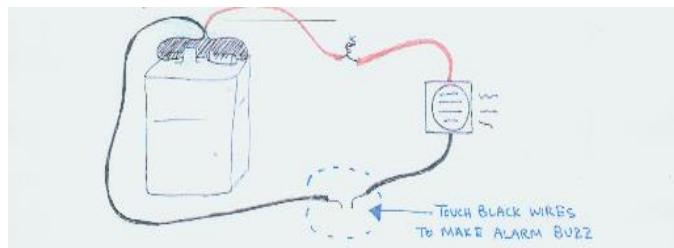
Keep your secrets safe!

WHAT YOU NEED:

- 9V battery
- 9V Battery Snap, T- or I-Shape
- Wire Lead Buzzer
- Aluminum foil
- tape
- Cardstock (or business cards)

HOW TO MAKE IT:

1. Snap the holder onto the battery.
2. Connect the red wire from the battery to the red wire at the buzzer by twisting the wires together and sealing with tape.
3. Touch the two black wires together to close the circuit and make the alarm go off.
4. Once you can make the alarm buzz, you need to design a switch to control when the alarm goes off. To make a switch, tape each piece of black wire under a piece of aluminum foil.
5. Tape the foil to the cardstock, making sure that the tape does not cover all of the foil. Touch the two foil pieces to make the alarm go off.



TURN PAGE TO SEE HOW TO MAKE A SWITCH FOR IT!

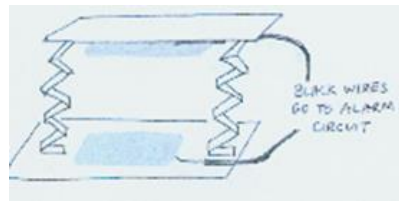


HOW TO USE IT / MAKING A SWITCH:

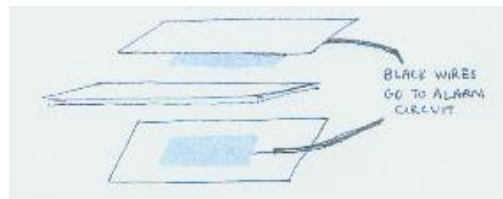
Now decide how you want to use your alarm. Do you want your alarm to go off when something opens or closes (i.e. a door or a book)? If so, then you will need a “spacer switch” (see diagram). Do you want your alarm to go off when something is touched or pressed (i.e. under a door mat)? If so, so, then you will need a “spring loaded switch.

Design the perfect switch for your alarm needs. Here are two examples of switches you can make:

Spring Loaded Switch (i.e.: under a door mat)



Spacer Switch (i.e.: as a bookmark)



HOW IT WORKS:

In all electrical circuits, electricity flows from the power source (in this case the battery) to the load (buzzer). All wires in the circuit must be connected for the buzzer to get power and make noise.