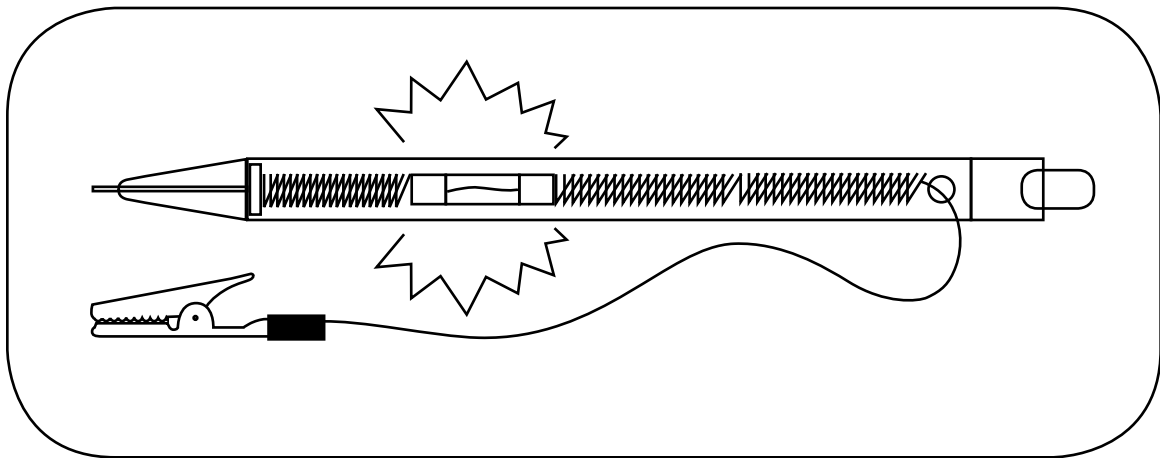


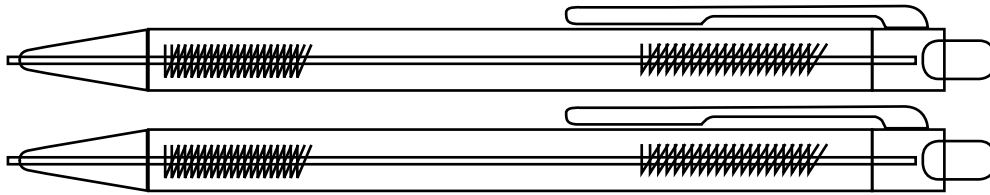
GHOSTIX
LABS*

A LITTE GUIDE TO BUILD
"THE GHOST-PROBE"



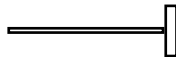
This is the list of parts, which are needed!

2 x pens (ball pens) one of them must be transparent

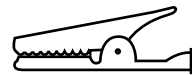


1 x security

1 x piece of wire

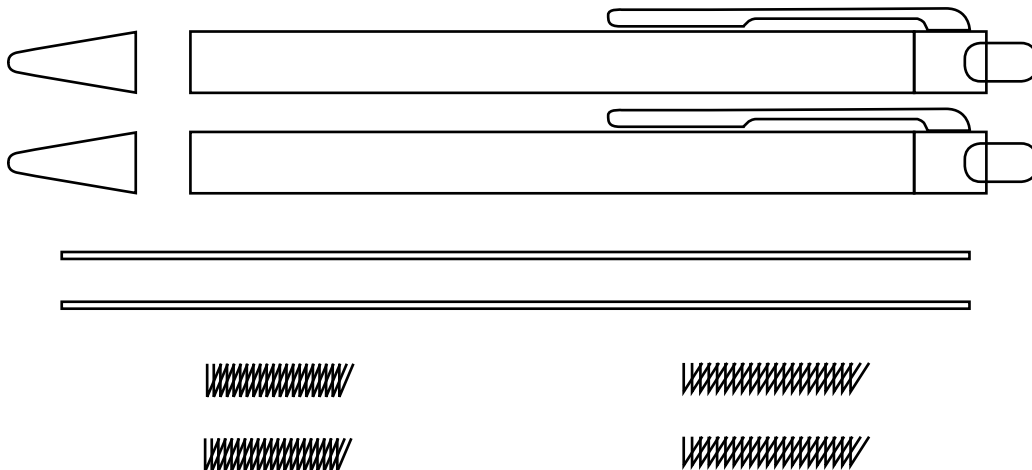


1 x small nail

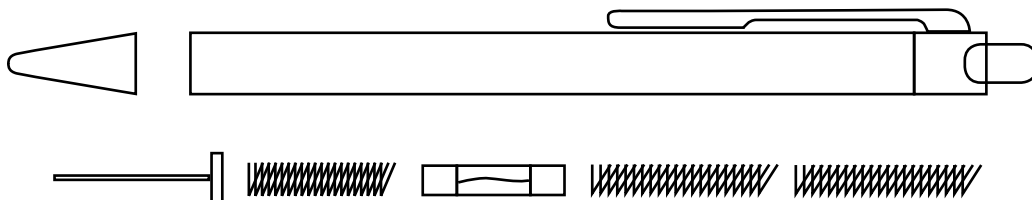


1x crocodile clamp (or a second nail)

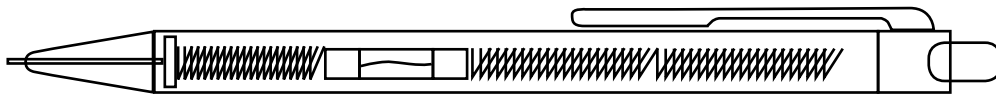
1.) Screw the two pens apart and take everything out!



2.) Try, if your parts will fit in the transparent pen!

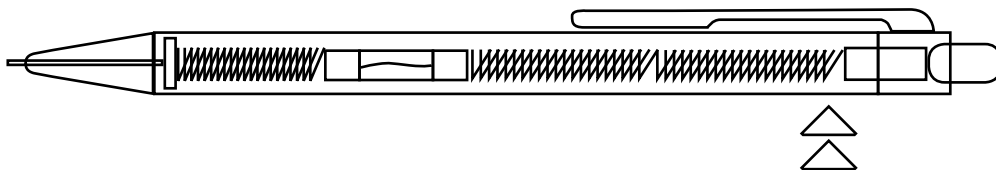


3.) Your pen should look like this now!

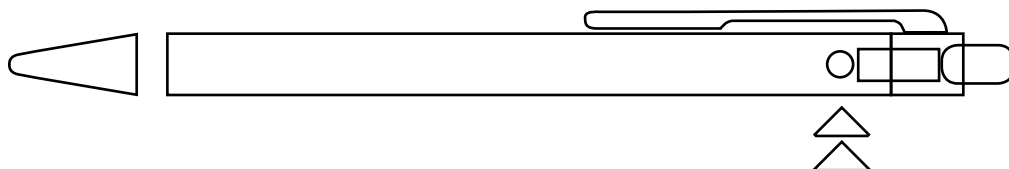


The security should sit tight between the springs, if not, just put another spring in. Try, if you can screw it together like this. If this won't work, try another plastic part from the inside of the other pen. It's not important, what you'll put at the end, as long as the springs are a tight fit, with the security and the nail. If the nail won't fit, try another one or widen the front hole of the pen!

4.) Mark the position of the top, of the upper spring and take all parts out of the pen, again!



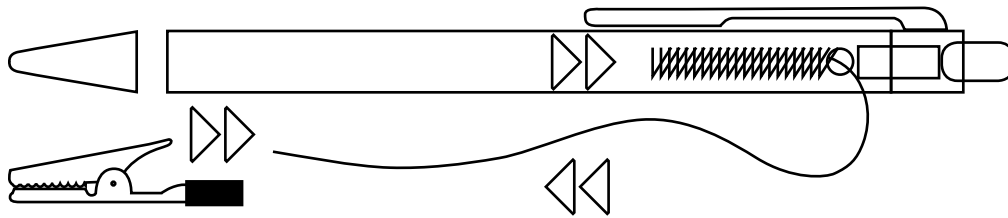
5.) Drill a small hole, where you've made your mark!



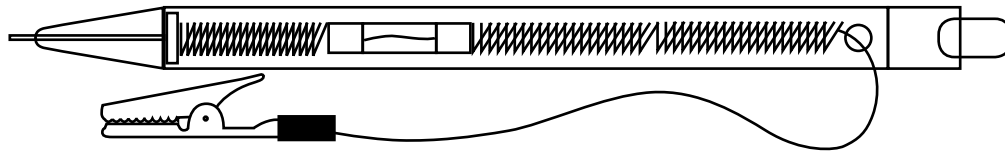
Then, remove the insulation of the two ends of your cable. Twirl one end tight to your upper spring!



6.) Put your cable in the pen and through the hole!

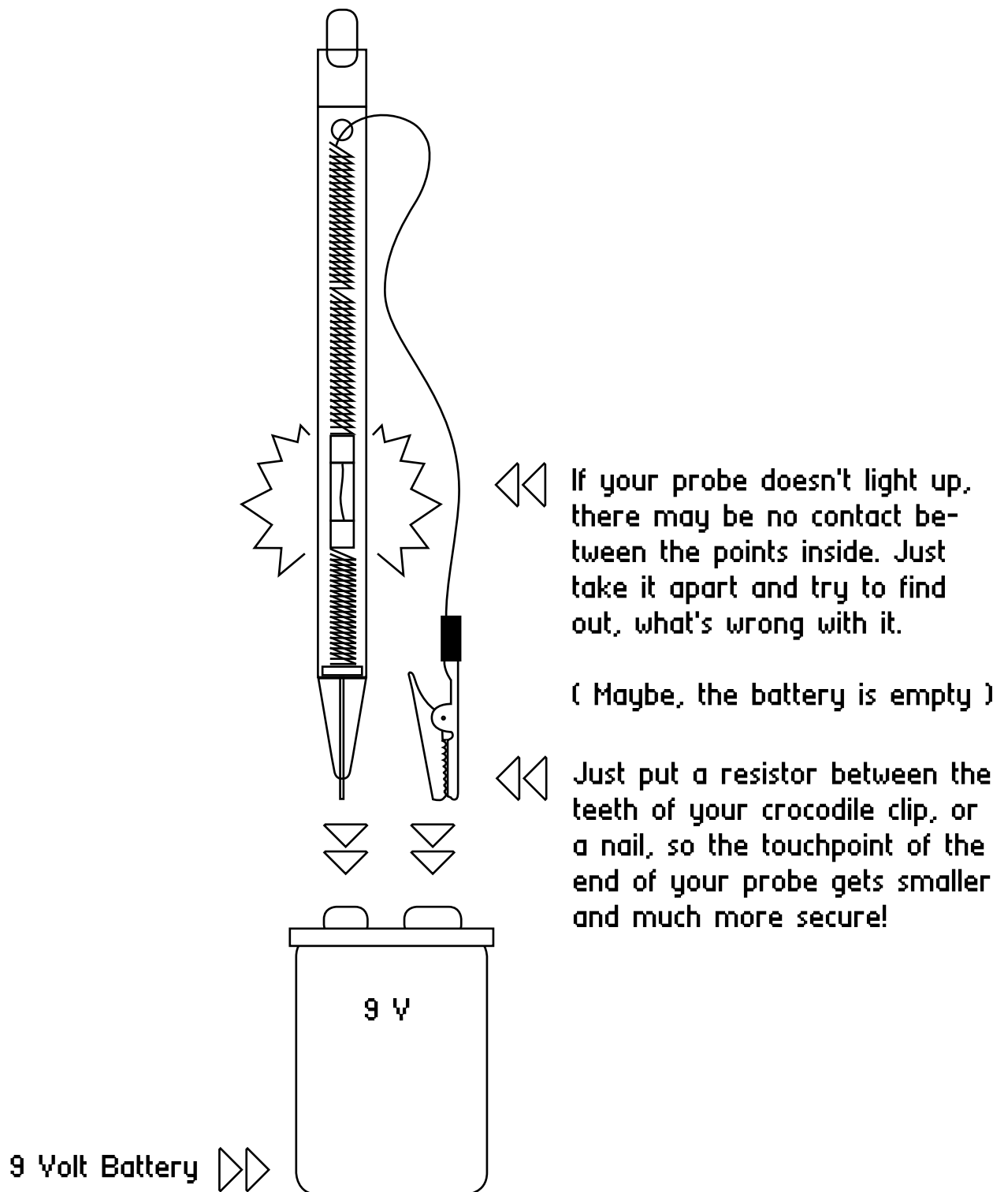


Then, twirl the crocodile clamp to the other side of the wire and put the other parts back in and your result should look like this: "Congratulations"



You may ask me, why is this device necessary and why we should build it from scratch. The reasons for this are simple. At first, you can learn, how you improvise something useful from broken items and to combine parts to build something new. This probe comes in handy, when you are searching around on the circuit board, of your dedicated instrument. It will warn you, if there is a critical shortcut or too much current, flowing between two points and will light up immediately. And you have a resistor in form of the security, between your two endpoints. This should save you time, your devices and maybe some money. You don't have to buy one and if you don't have one, you are able to build one, out of the trashcan! Bending means to improvise and troubleshooting, because you are the builder. I can't give you a 100% enshurance, that this will prevent you from the case, that you'll fry your bending project! If this happens, take a new one, the parts from the old one and go on!

7.) Test your Ghost-Probe with a battery!! It should light up, if you touch both poles on it, with your probe! Don't put it in a plug socket or into an electrical device, which plugs directly into the wall. This probe is for battery powered devices, only!!!



!!! WARNINGS !!!

If you don't know, what you're doing, just ask your parents, they'll help you out. Otherwise, ask a friend or your science teacher, what to do, at first.

NEVER TRY TO BEND ANYTHING, WHICH PLUGS DIRECTLY INTO THE WALL. THIS PROBE IS ONLY FOR BATTERY POWERED DEVICES. NEVER TRY TO PUT THIS INTO A PLUG SOCKET OR ANY HOUSEHOLD DEVICES!!! THIS COULD KILL YOU OR MAY HARM YOU IN A DEFINITELY BAD WAY!

I'm not responsible for any harm, due to the use of the Ghost-Probe. And I'm not responsible for any machine you'll fry. Make shure, you do the right thing and read my warnings. If you are not familiar with Circuit Bending, just find more out about it. There are pretty much online resources and diy-guides, in form of Video-Tutorials and books!

Voltages from Battery Powered devices up to 12 Volts are OK. If you aren't shure about an electrical device, please, ask your parents, first! Don't open expensive machines, which aren't yours and think twice about it. Because there is a difference between cheap toy keyboards and things you can't replace.