



Steady Hands

E-mail : patkitsrus@gmail.com

Cell / Whatsapp : 071-133-0639

90 Adam Tas Avenue, Bothasig, 7441

PATKITS-R-US

Supplying School Technology
Projects Since 2020

Order Now - STEM Learning Kits Today!
+27 11 133 0639



R1 - 470r	R2 - 1k	R3 - 2k2	C1 - 10uF	D1 - 1N4007	LED 1	Q1 - BC 548
R1 - 470r	R2 - 1k	R3 - 2k2	C1 - 10uF	D1 - 1N4007	LED 1	Q1 - BC 548

Dowel rod- 15cm



On / off switch

On / off switch



Buzzer

Buzzer

Dowel rod- 15cm



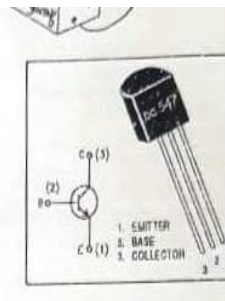
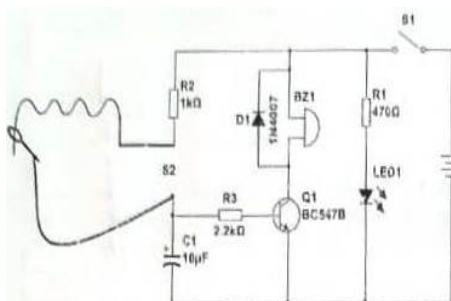
Brass screw eye

Wire - Red - 25cm

Wire - Black - 25cm

Wire - Red - 50cm

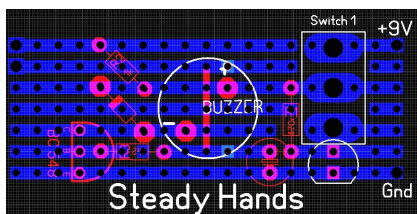
Wire - Black - 25cm



9V Battery clip

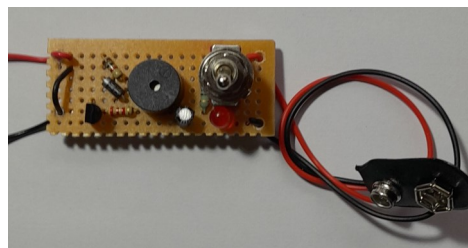


9V Battery



Steady Hands

Veroboard layout



Assembly

First a tip on soldering. Use a 40 - 60 Watt soldering iron. The tip must be clean and shiny. Heat up the component as well as the pcb at the same time while applying the solder wire. A good solder joint is smooth and shiny, not lumpy and dull. Thread the red and black wires through the strain-relief holes on the Pcb and solder it to the on the second set of holes. If you just solder them straight in, they will break off very soon. Do the same for the red and black wires from the battery clip. Next fit the three resistors, buzzer, Led, diode, transistor and the switch. Note that the led, capacitor and buzzer are polarity conscious and have to be put in the right way around. Now solder the black wire to the loop wire and the red wire to the cup hook. The switch can be mounted on the Pcb in the three holes provided.

Operation

Fit the battery and switch on. Led 1 should light up now. Then touch the cup hook to the wire. The buzzer should sound. If not, recheck your component placement , wiring and soldering. Enjoy your project !