

Functionally: Meant to establish a rigid electrical connection between two points for long time.

Emotionally: Soldering wires is a fundamental. It's satisfying and fun to melt metal, however often the thing I am soldering is serving a greater purpose for others, so there is a responsibility component involved

0 Gather:

- a) Clear clutter out of workspace
- b) Get soldering iron, plug in and turn on, set to desired soldering temperature
- c) Gather workpiece(s), wire, solder, filtering fan, tip cleaner, soldering iron, flush cutter, wire strippers, helping hands, work mat

1 Prep:

- a) Determine wire length(s) and to which pins they run
- b) Cut wire(s) with wire strippers and solder
- c) Strip wire about 5-7mm with wire strippers, holding at around 60° angle as to ensure good shearing of insulation but not of wire strands
- d) Brush stripped wire insulation to the side
- e) Secure PCB/Workpiece using helping hands or tape, or let it free float

2 Solder

- a) Turn on filtering fan
- b) Grab solder iron with right hand and clean hot solder tip in brass tip cleaner by rotating in between fingers and pressing up and down
- c) Push stripped wire though pinhole on workpiece with left hand, angle it such that it stays in place
- d) Grab solder with left hand, and pin exposed with between solder and solder iron until solder melts and thoroughly dopes the wire and pin
- e) Repeat b-d for all wires and pins required
- f) Clip extra wire length

3 Clean up

- a) Clean soldering iron tip in tip cleaner
- b) Turn off fan and soldering iron and unplug
- c) Put away everything as fast as possible
- d) Any detritus remaining swept away and thrown out

Problems

1c isn't always consistent depending on insulation

1e is often never strong enough and it makes me nervous

2b-d is oftentimes not rigid and there isn't enough support

2d doesn't pool that great

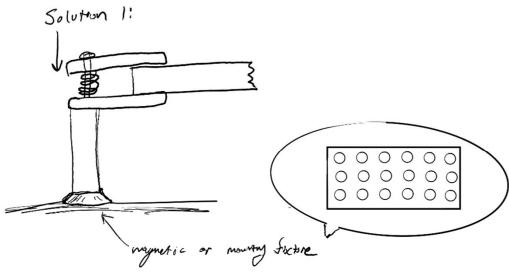
In general, you need like 4 hands

- 2, you can only solder 1 wire at a time, often times I do 10+ in one sitting
- 2, often time the soldering tip oxidizes during soldering and can ruin the bead

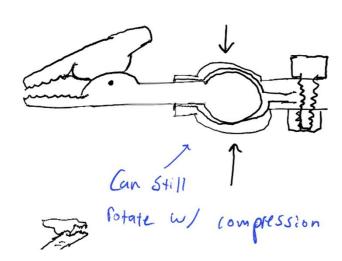


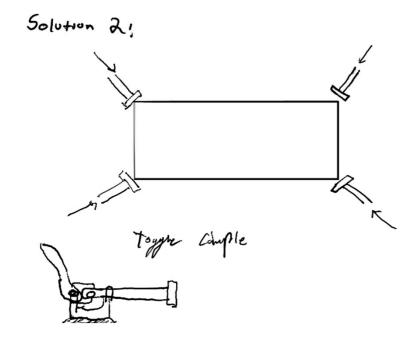
Problem 1, securing the board





Poolsham 1: Secury the work, the band



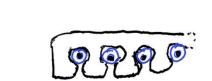


Problem 2, multiple wires at once

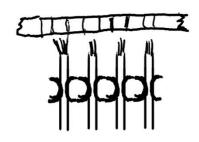
Problem 2:

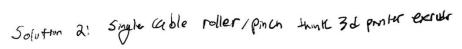
Solding one at a fine, its very disropting to have to

Solution 1: comb nolder

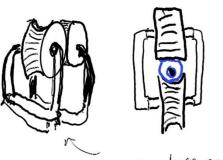








Mimicks Singers



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