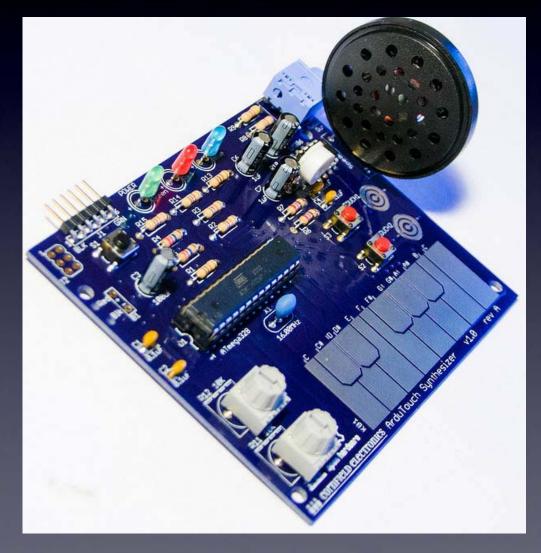
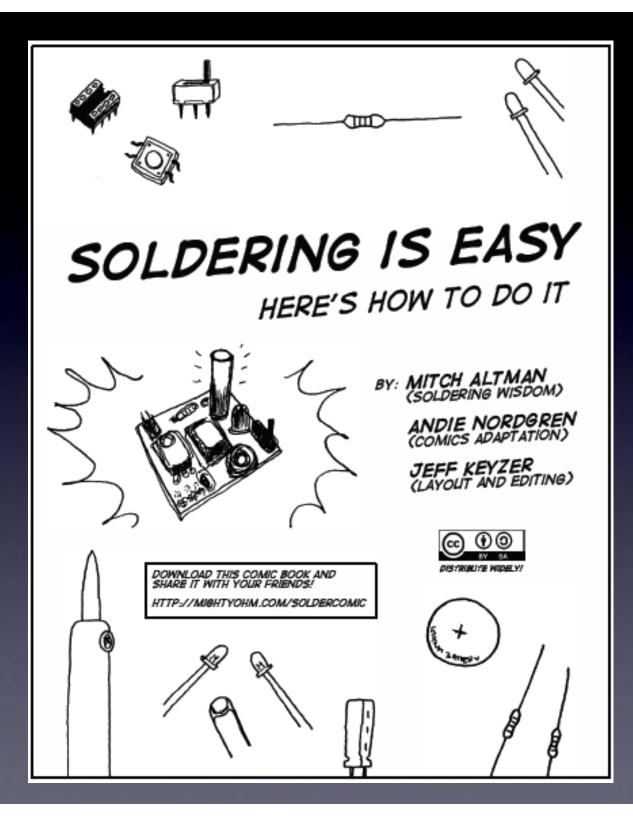
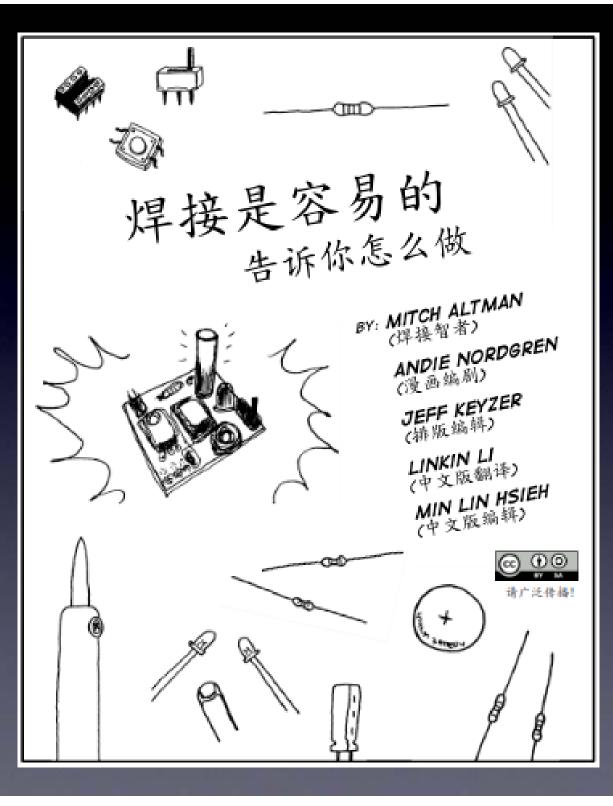
ArduTouch Music Synthesizer Assembly Instructions





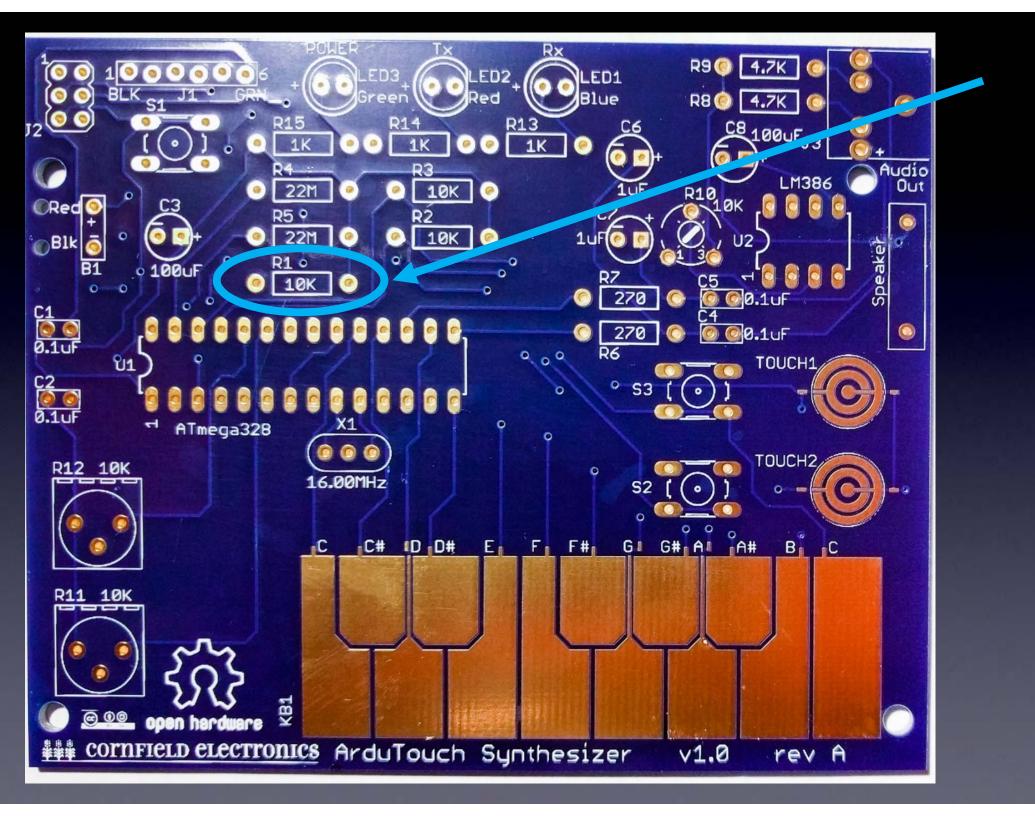
earn To Solder





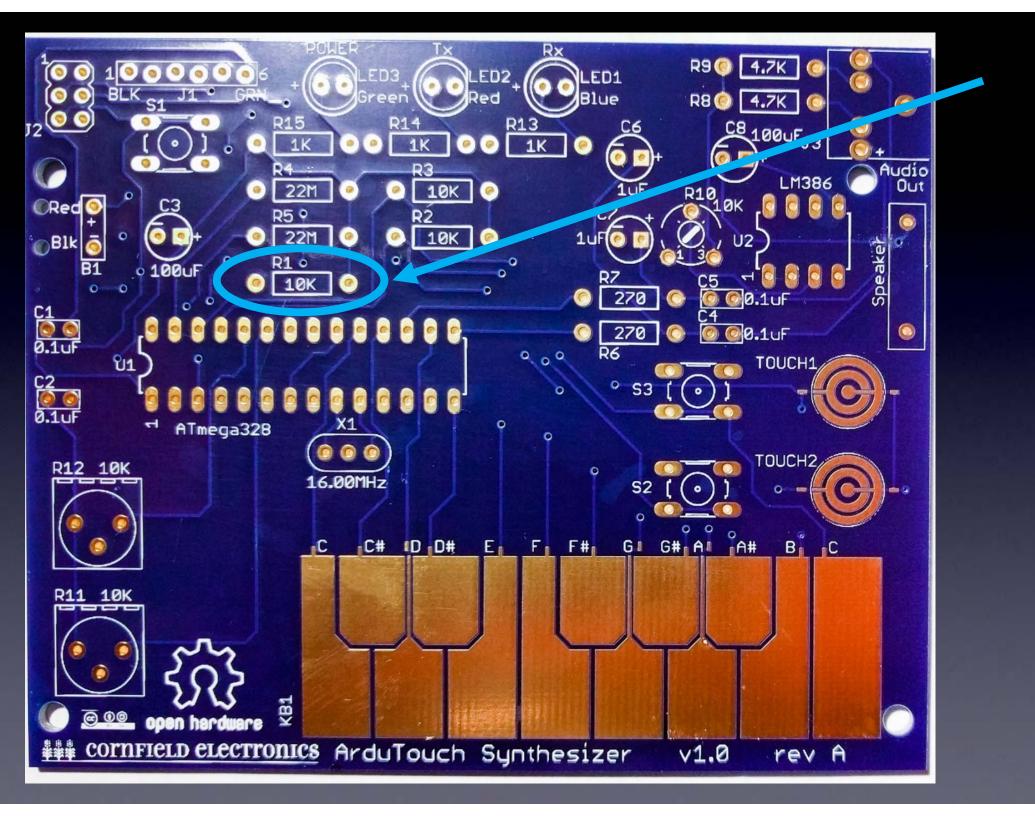




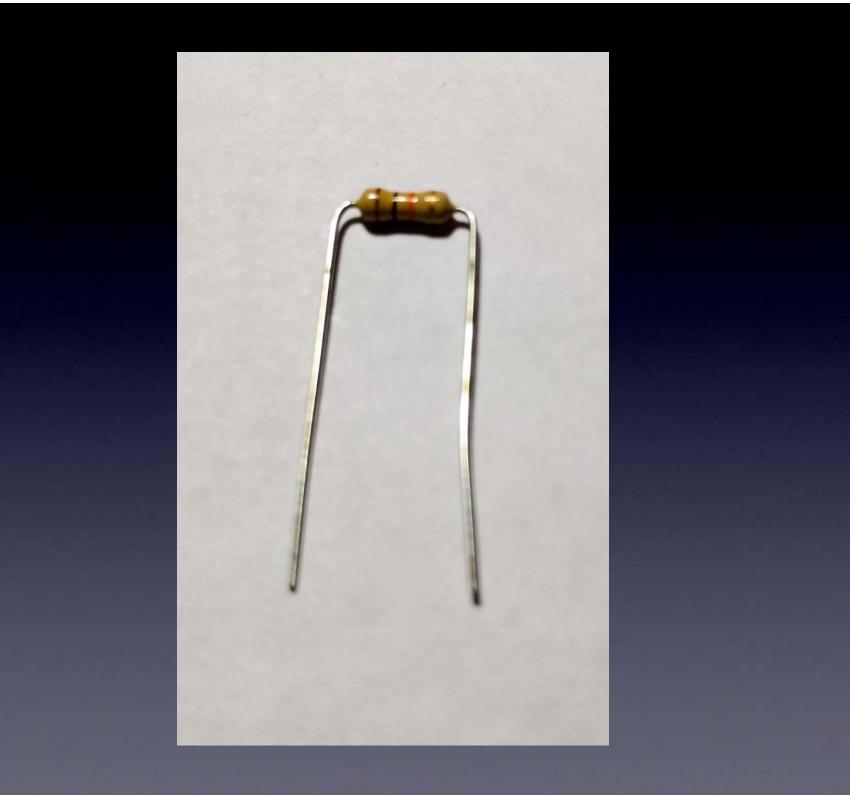


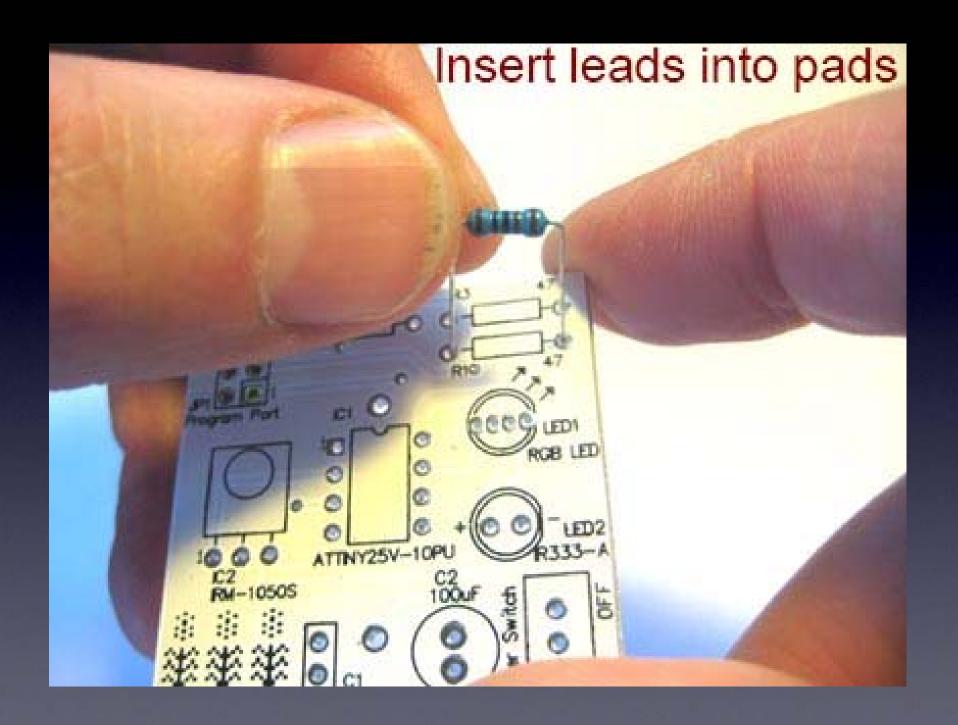
R1: Brown, Black, Orange

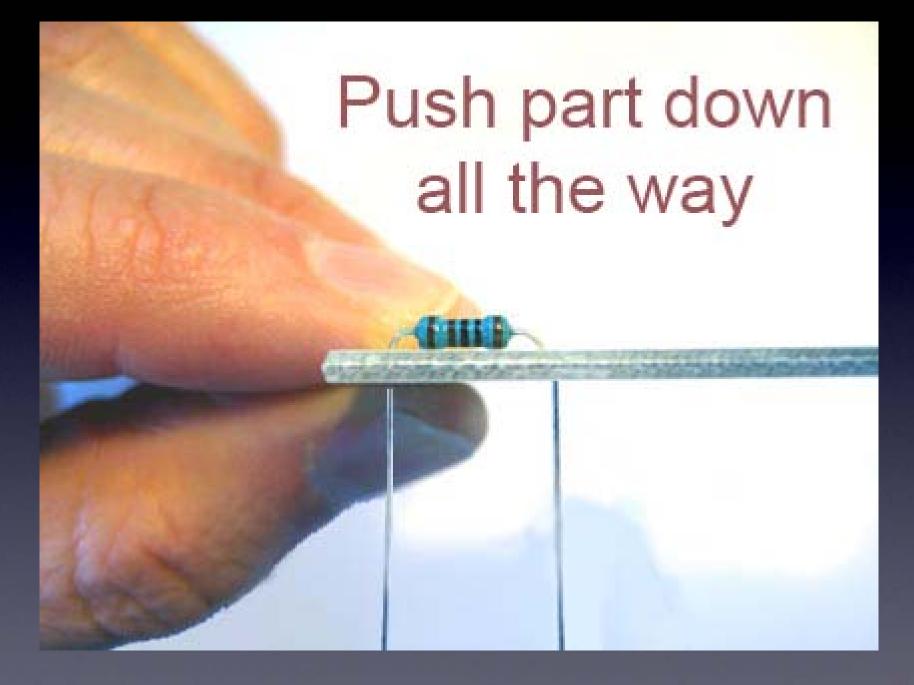
(not Brown, Black, Red)



Bend leads before inserting the part into the board

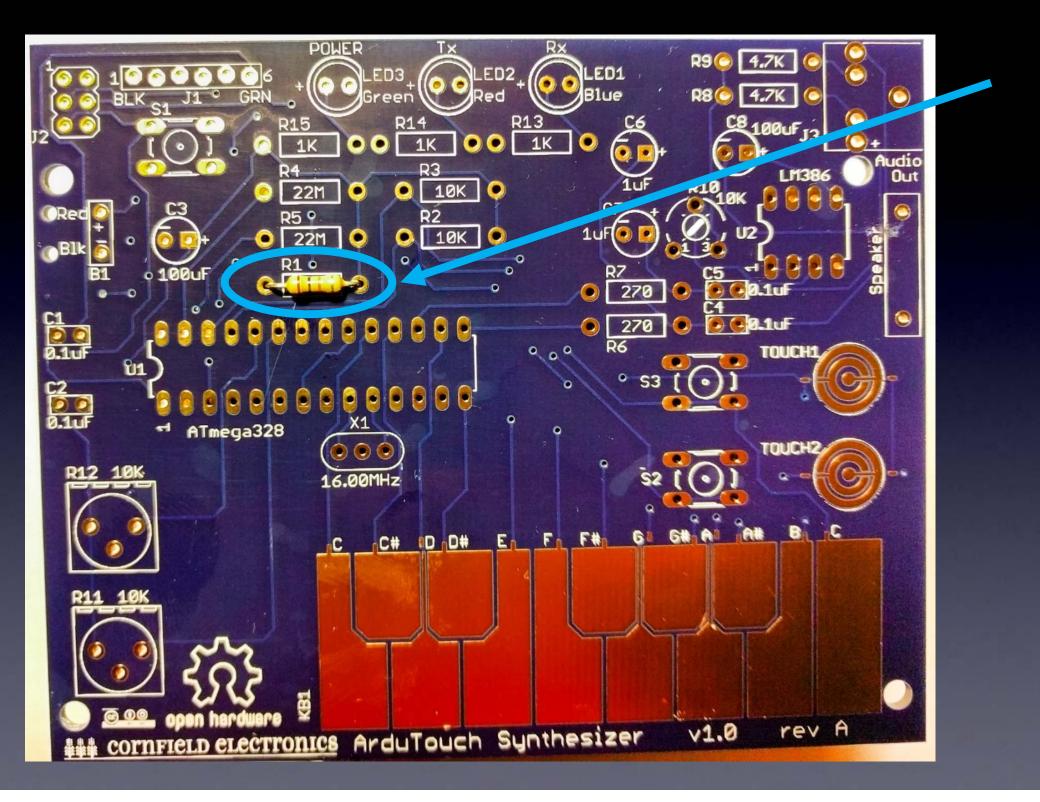






Upside down/

Wires bent half way out



How to hold a soldering iron

The perfect kind of solder for electronics: 60/40 rosin core, 0.031" diameter

3 Safety Tips...

Safety Tip #1:

Hot !!

Safety Tip #2:

Lead (Pb) is toxic

Safety Tip #3:

(coming soon)

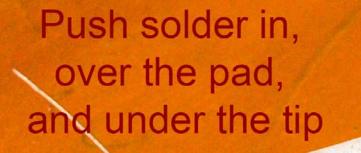
2 secrets to good soldering...

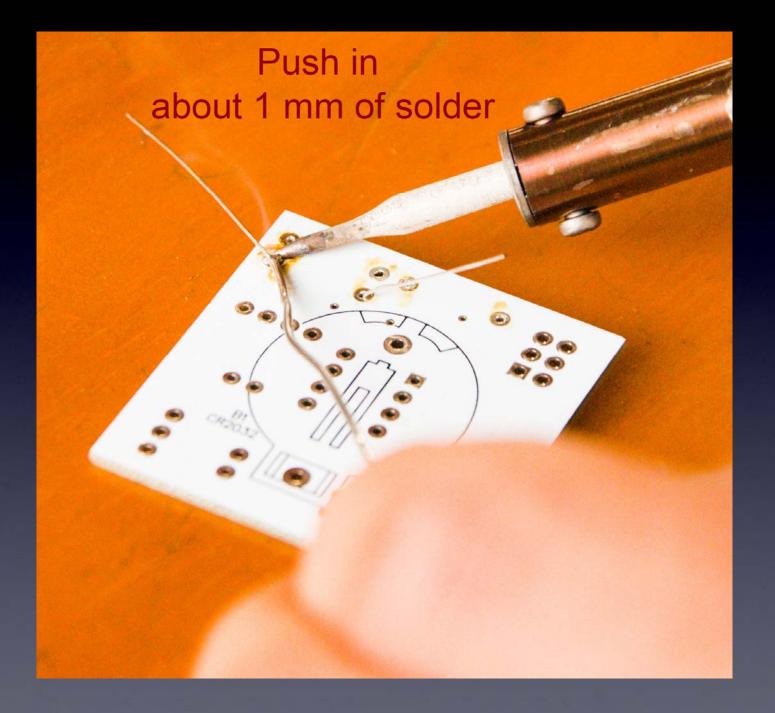
Secret #1:

Clean the tip!

Bang 3 times, Swipe, Rotate, Swipe

Lay clean tip across half of the pad, touching the pad and lead for 1 second



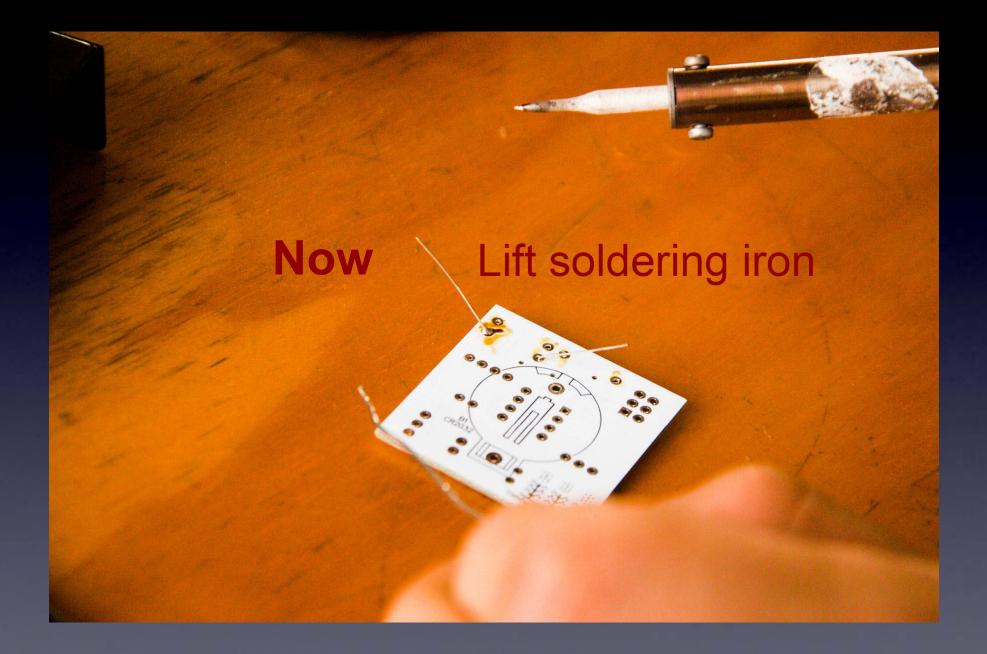


Pull solder away, But keep holding soldering iron down for 1 more second

Secret #2:

Keep hot tip down 1 second for solder to flow !!

Pull solder away, But keep holding soldering iron down for 1 more second



A Little Bump of Solder

Perfect !!

Hold the lead while cutting it all the way down to the little bump of solder

Safety Tip #3:

Hold or cover the lead !

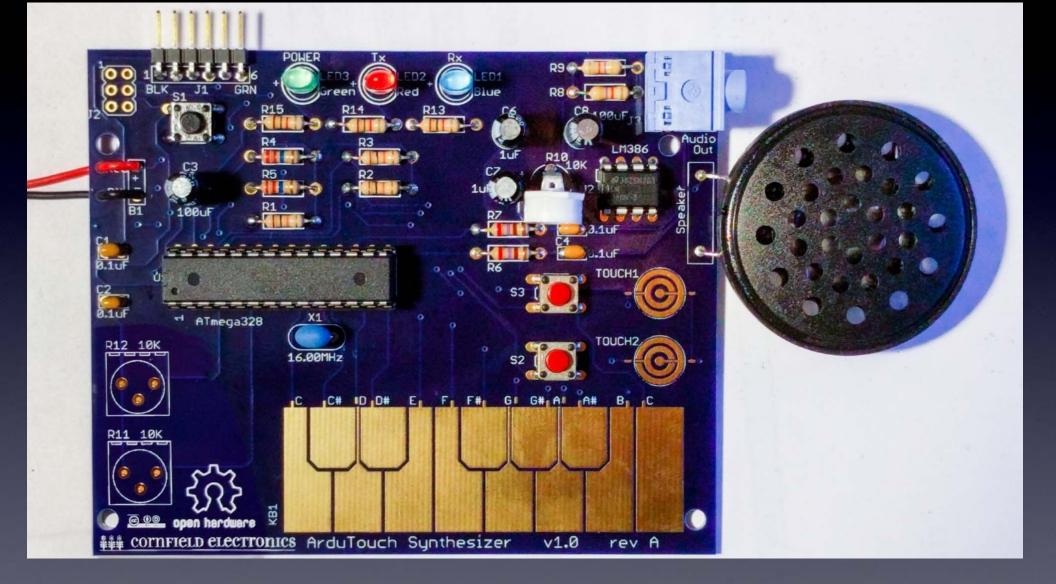
All done !

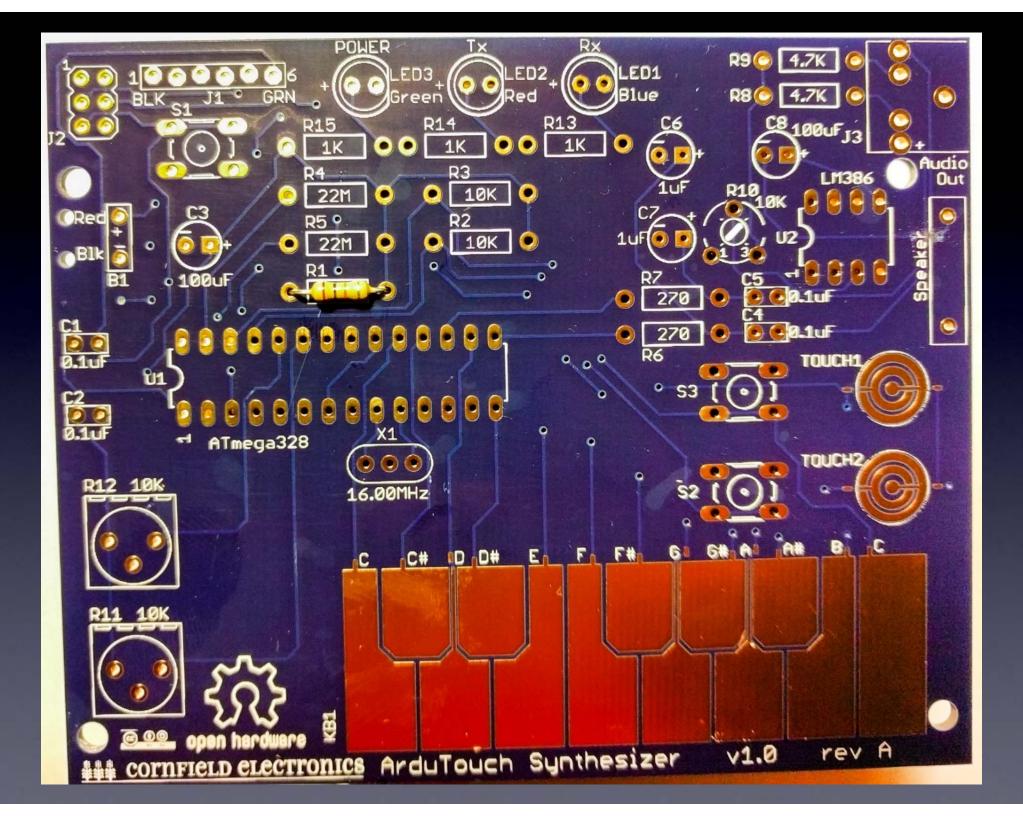
....



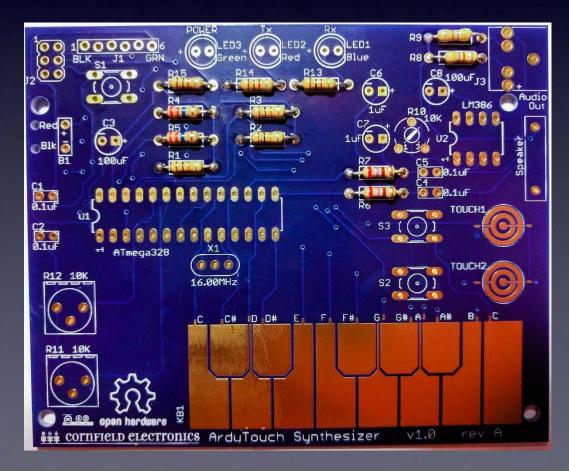
One part at a time

Till all the parts are soldered

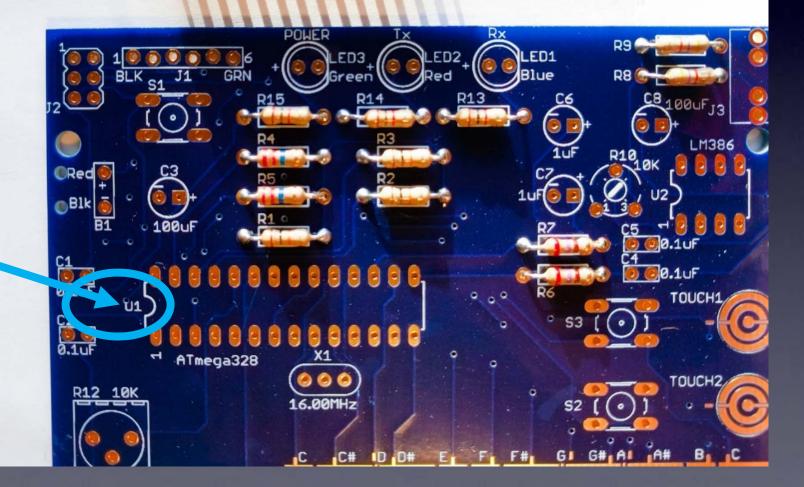


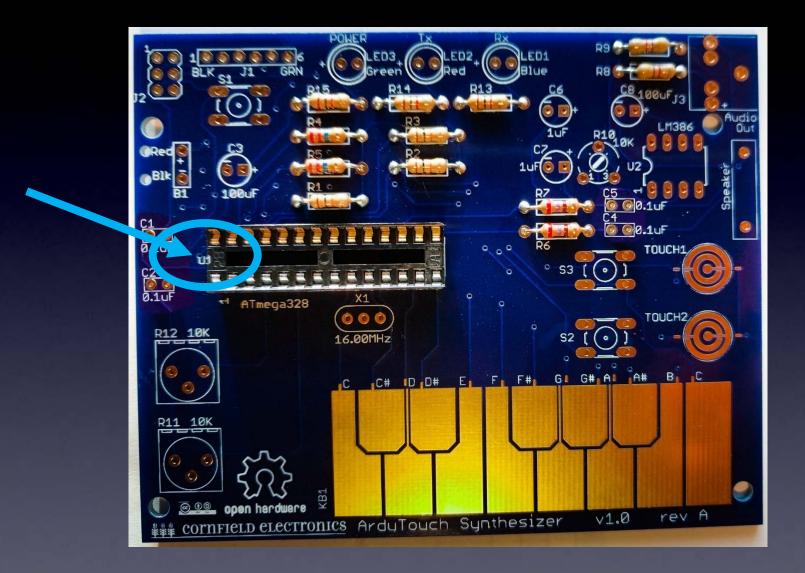


R1, R2, R3: 10K: Brown, Black, Orange R4, R5: 22M: Red, Red, Blue R6, R7: 270: Red, Violet, Brown R8, R9: 4.7K: Yellow, Violet, Red R13, R14, R15: 1K: Brown, Black, Red



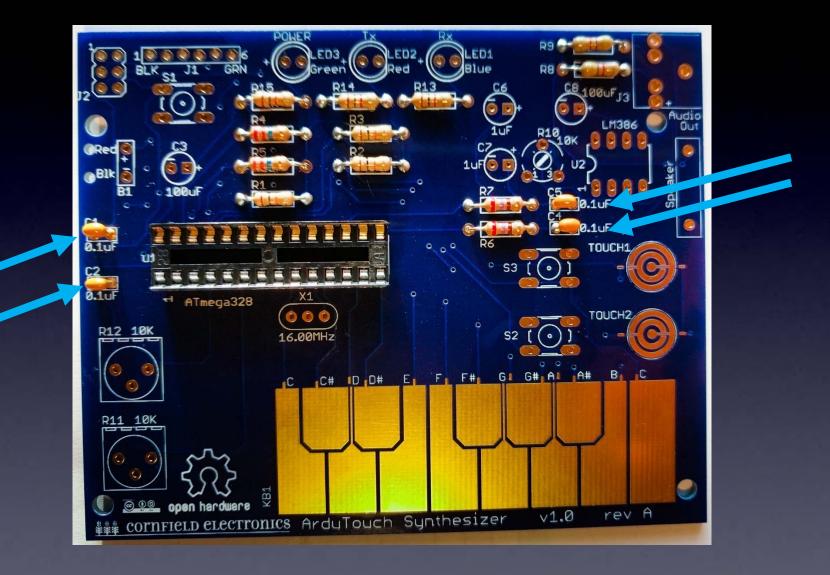






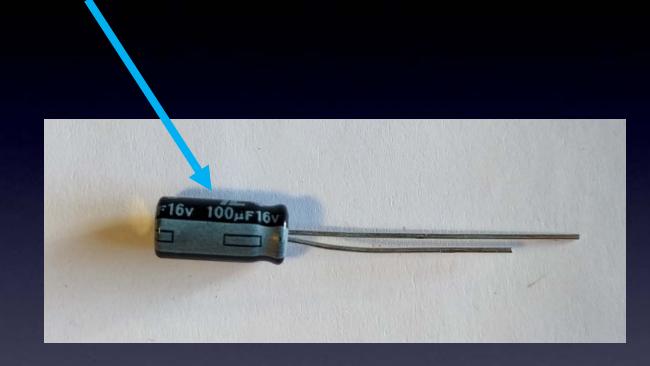






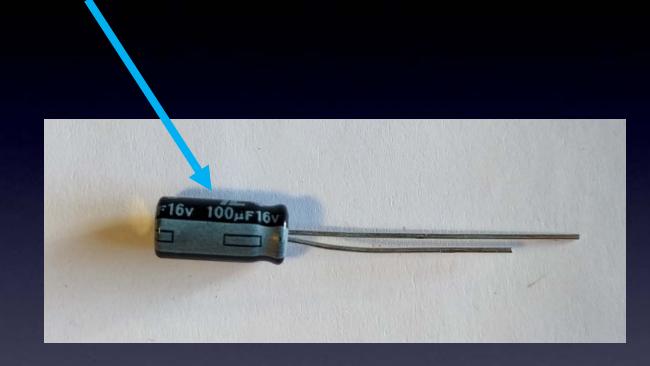
C1, C2, C4, C5

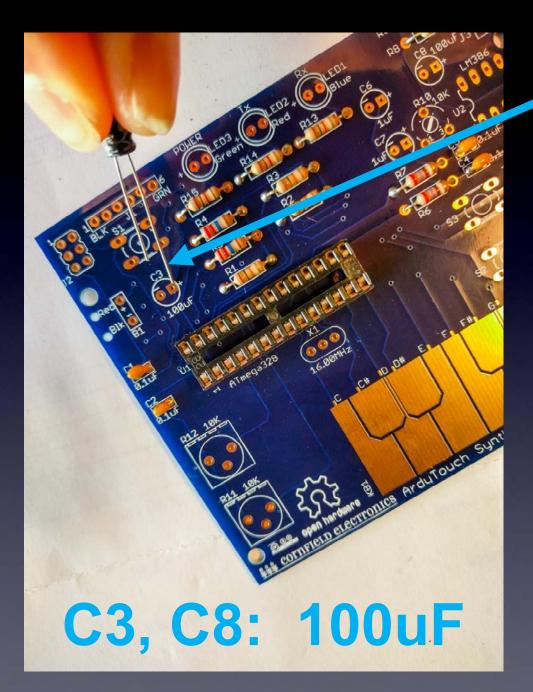




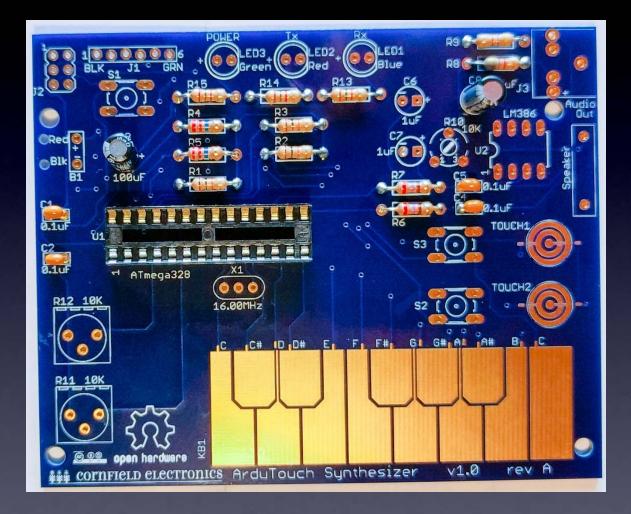






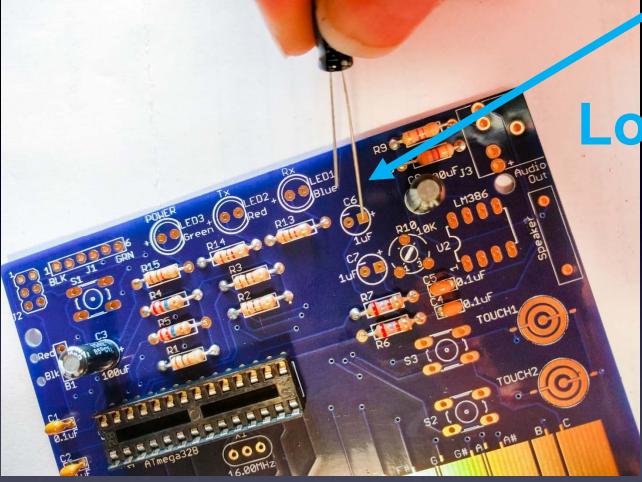


C3, C8: Long Lead "+"

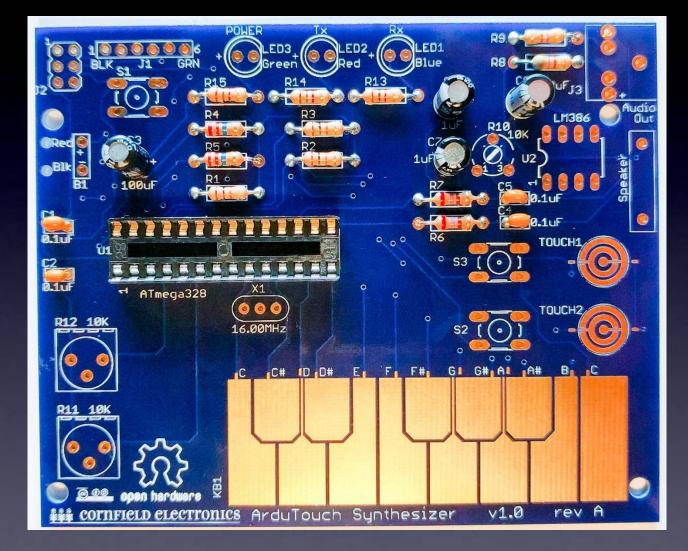


C3, C8: 100uF

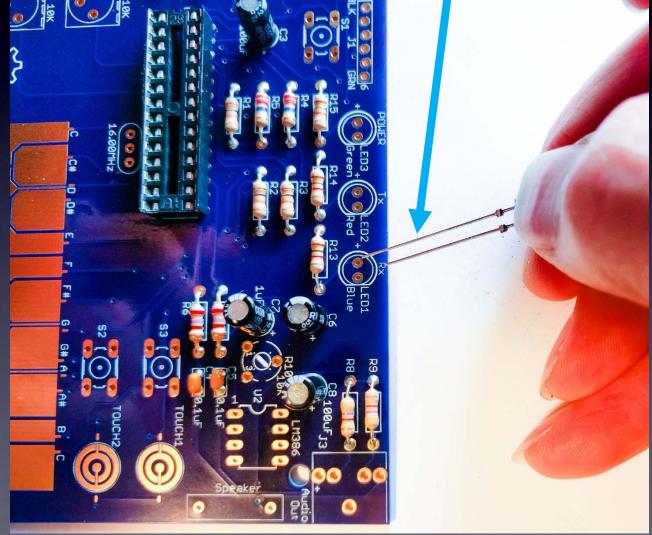




C6, C7: Long Lead "+"

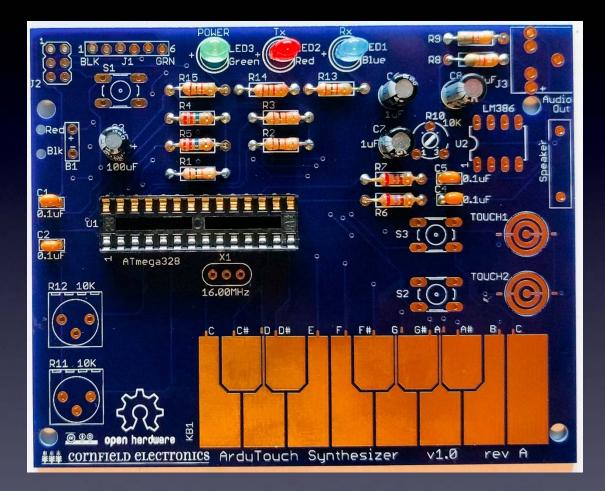


LED1, LED2, LED3: Long Lead "+"

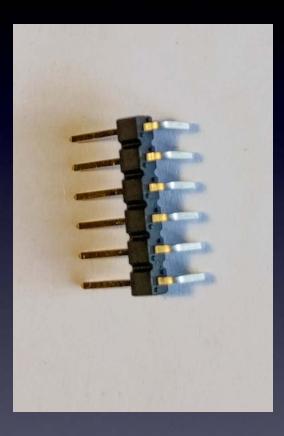




We'll use them for the speaker

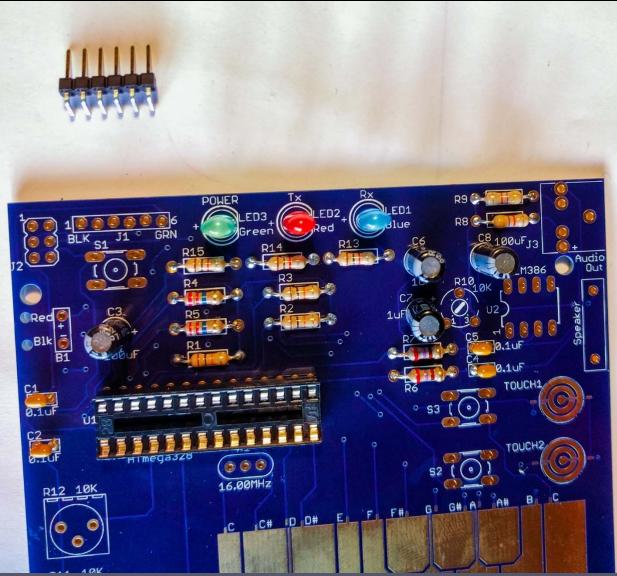


LED1, LED2, LED3

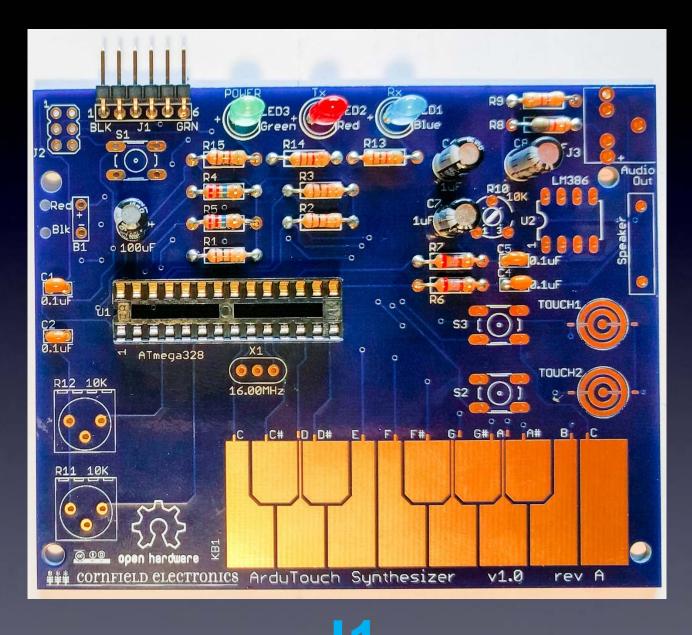


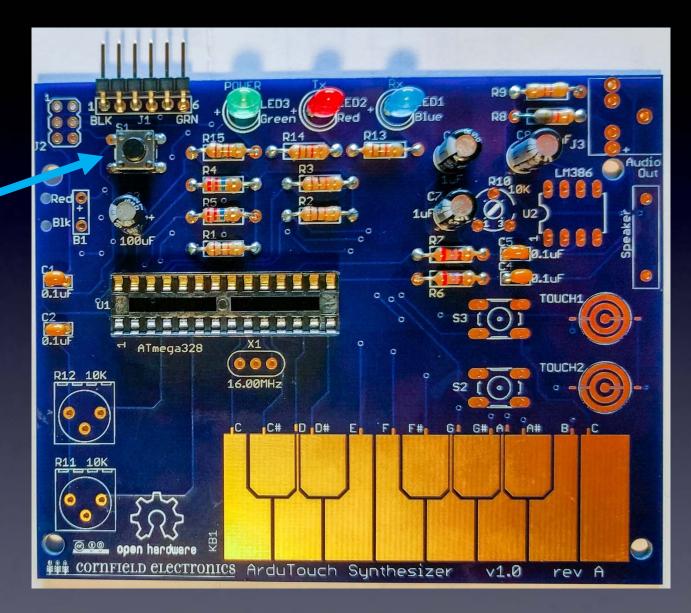


Short leads into board

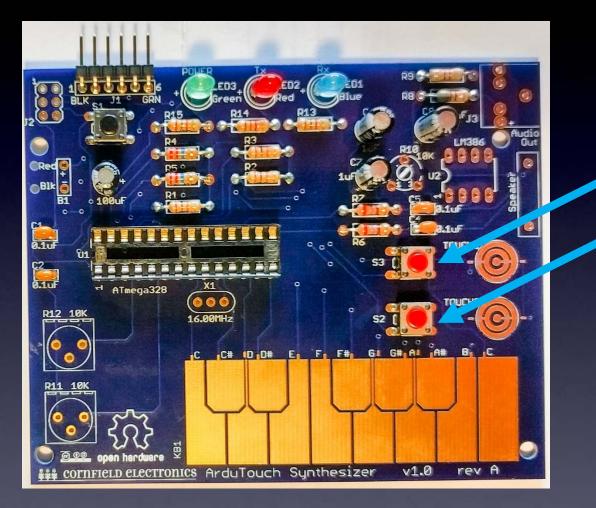


J1

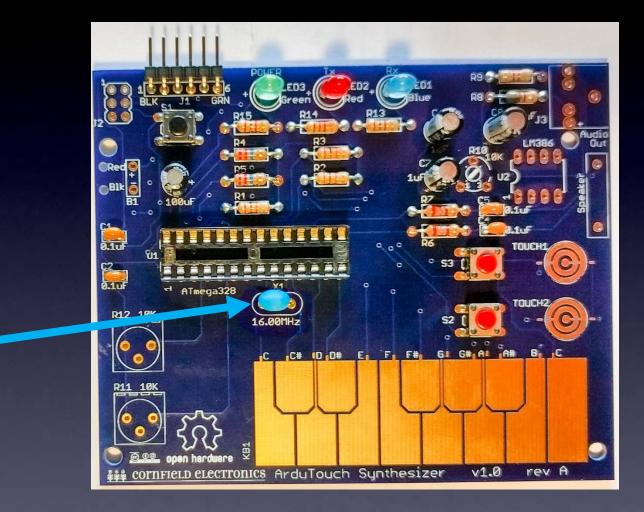




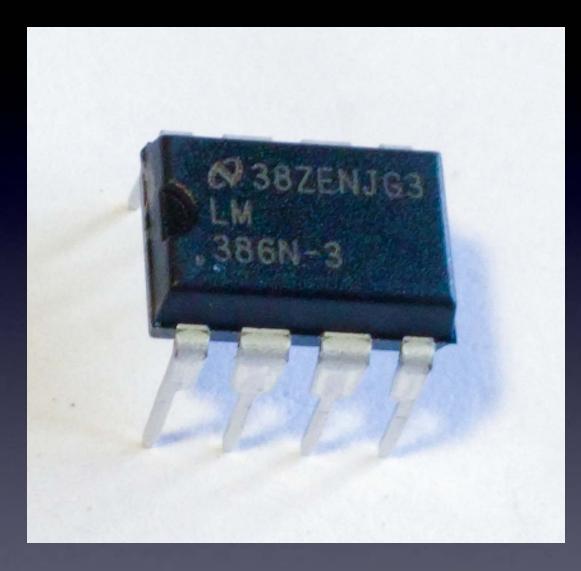
S1: black Reset button

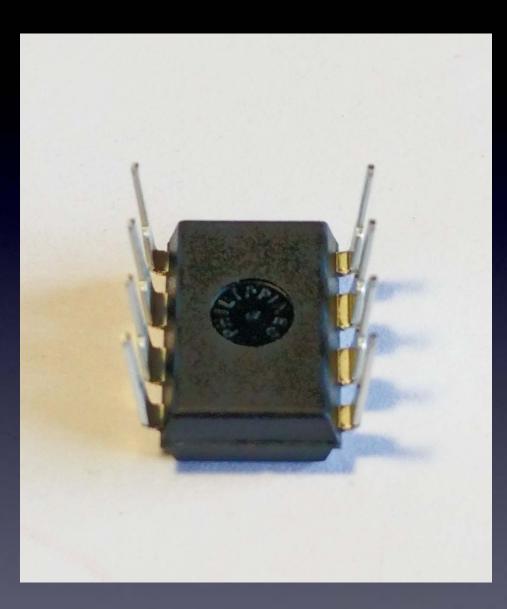


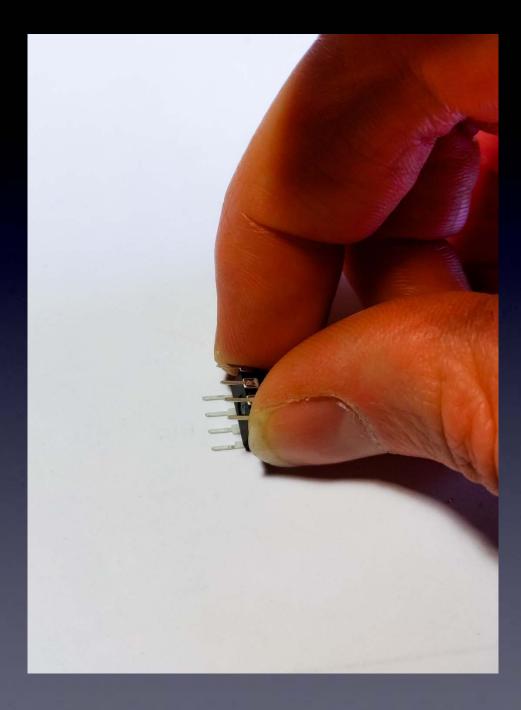
S2, S3: Red buttons

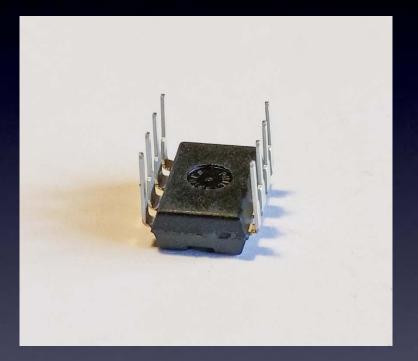


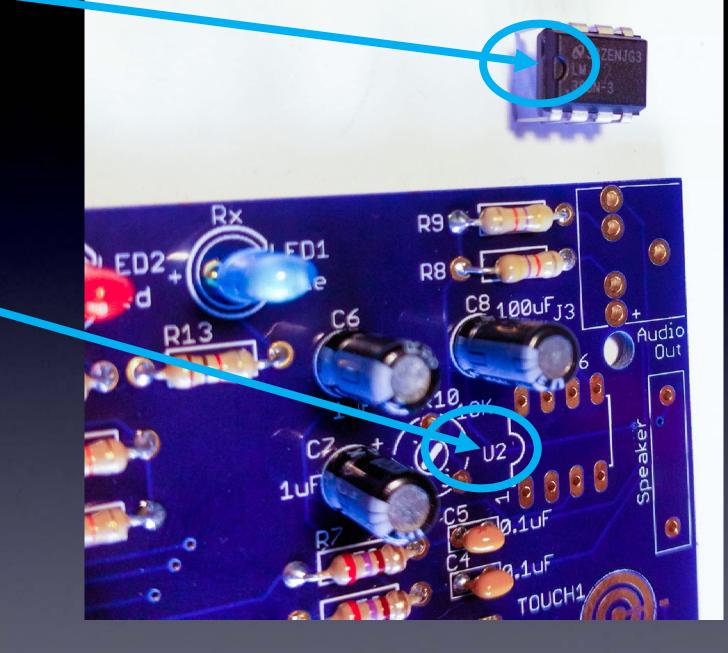
X1

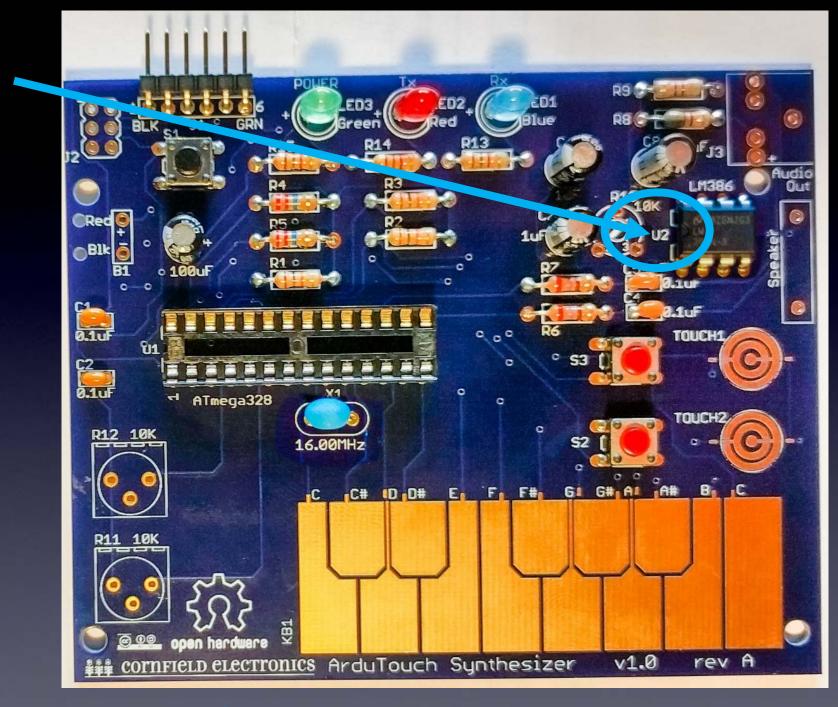


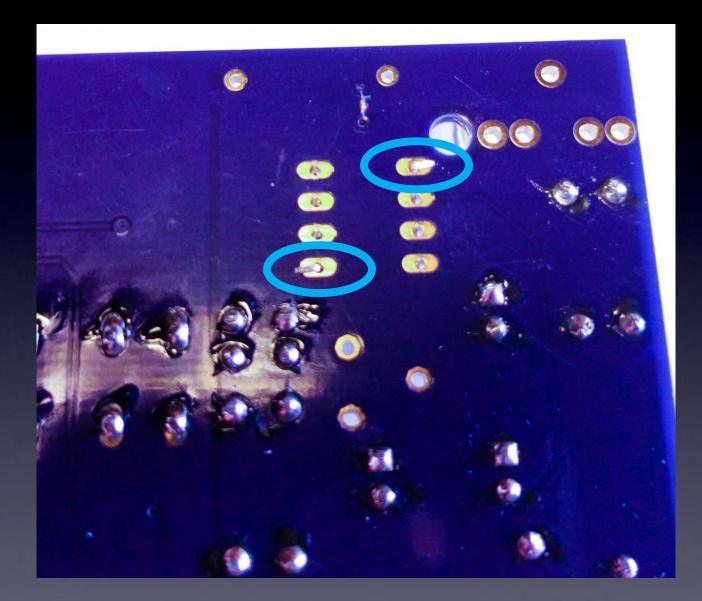


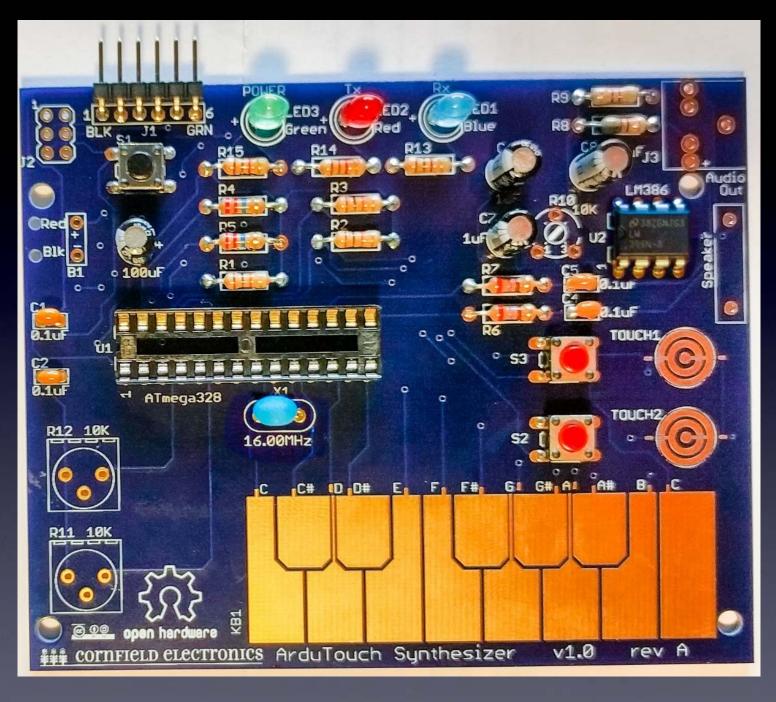


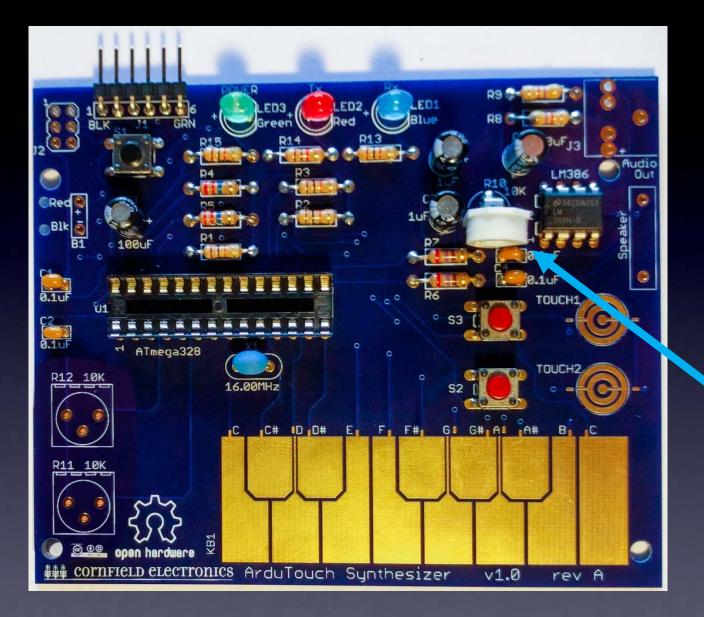




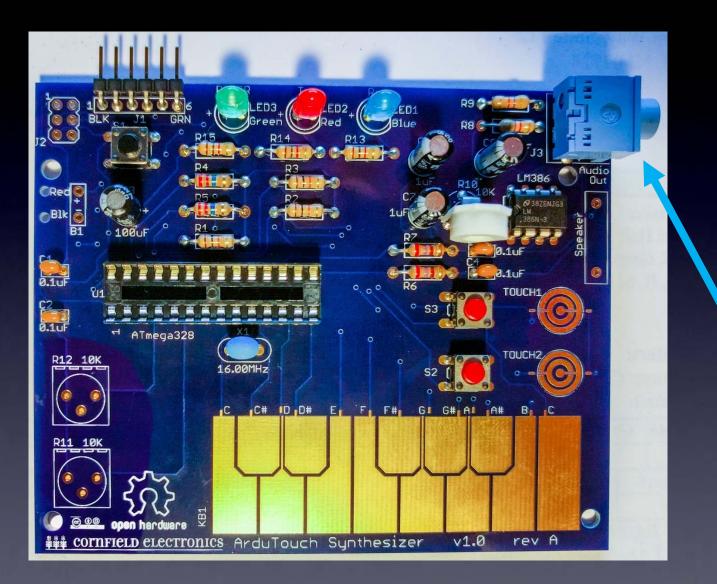








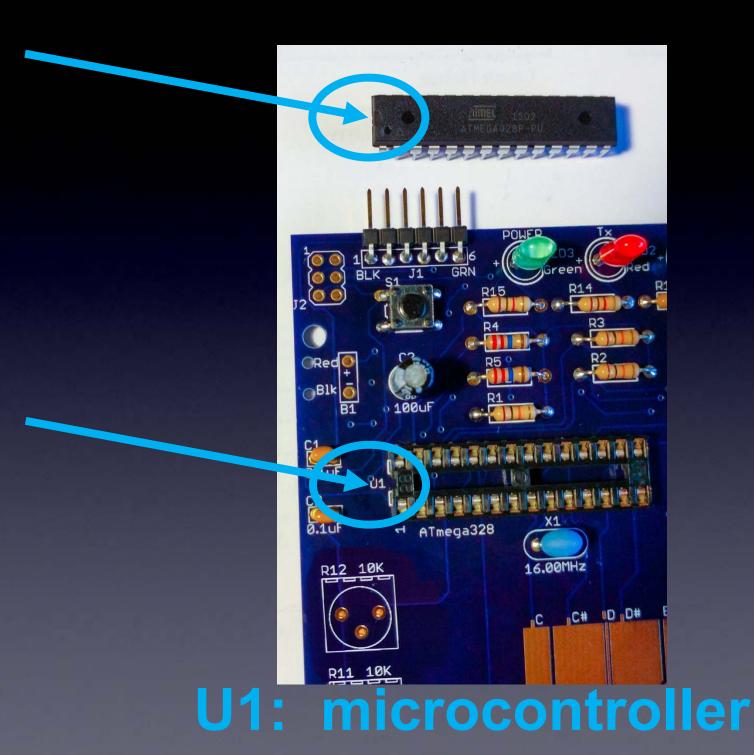
R10: volume control

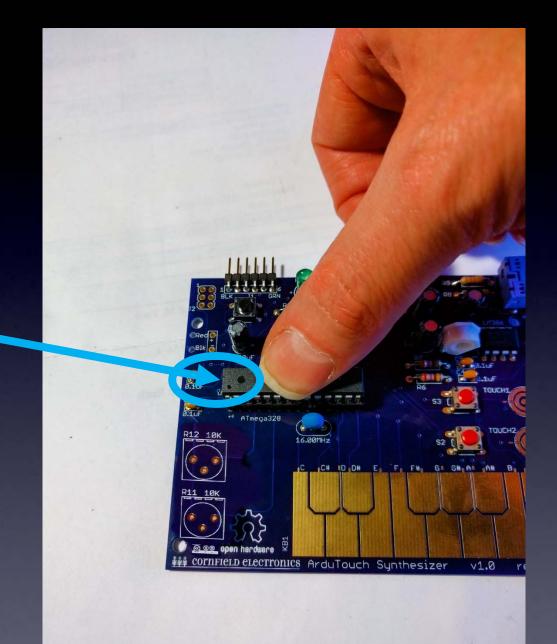


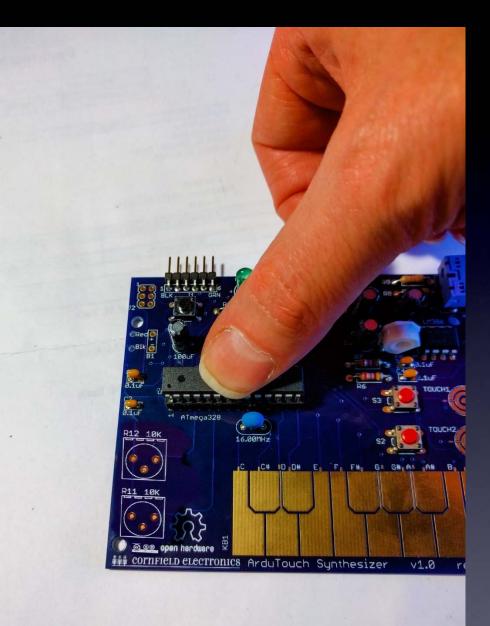
J3: headphone / output jack

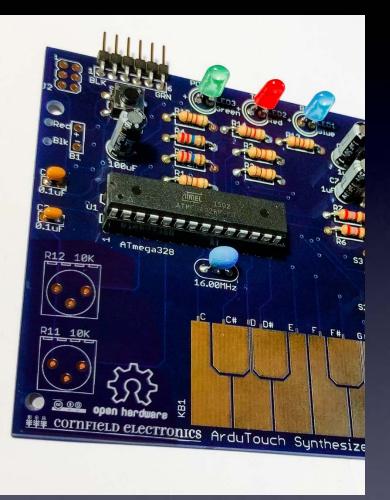


U1: microcontroller



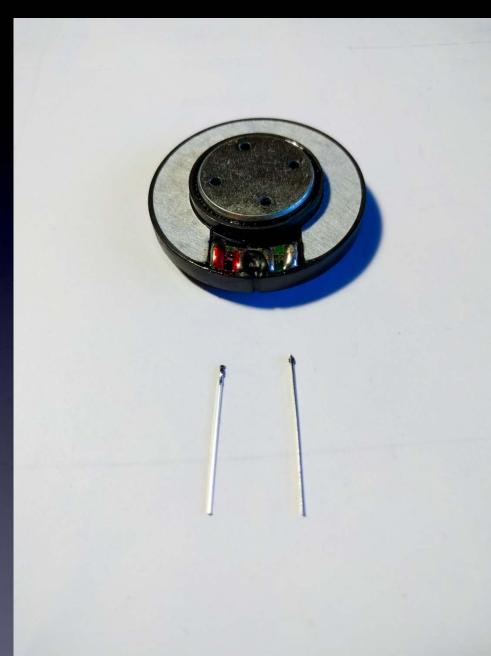


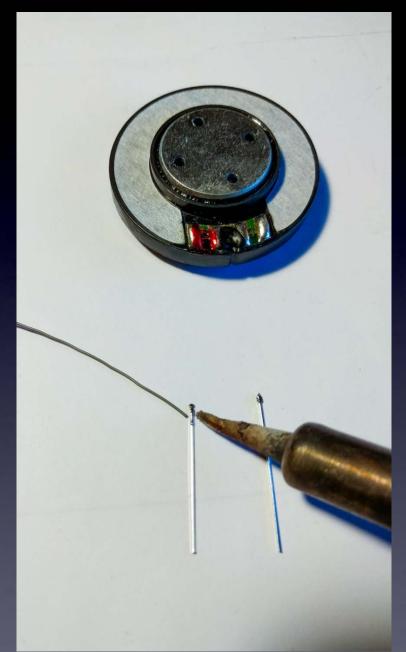










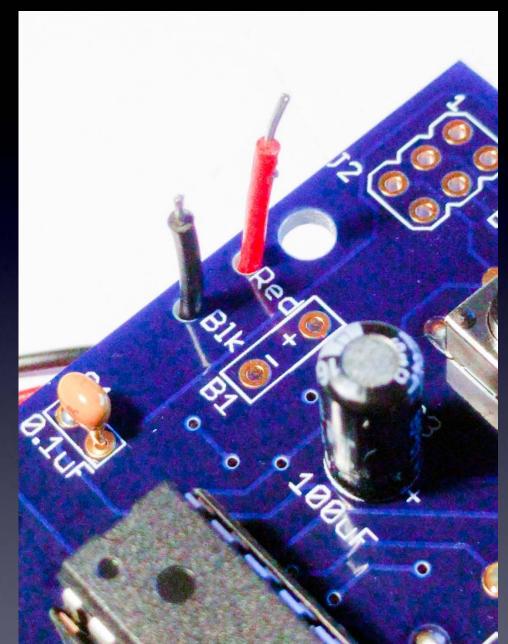




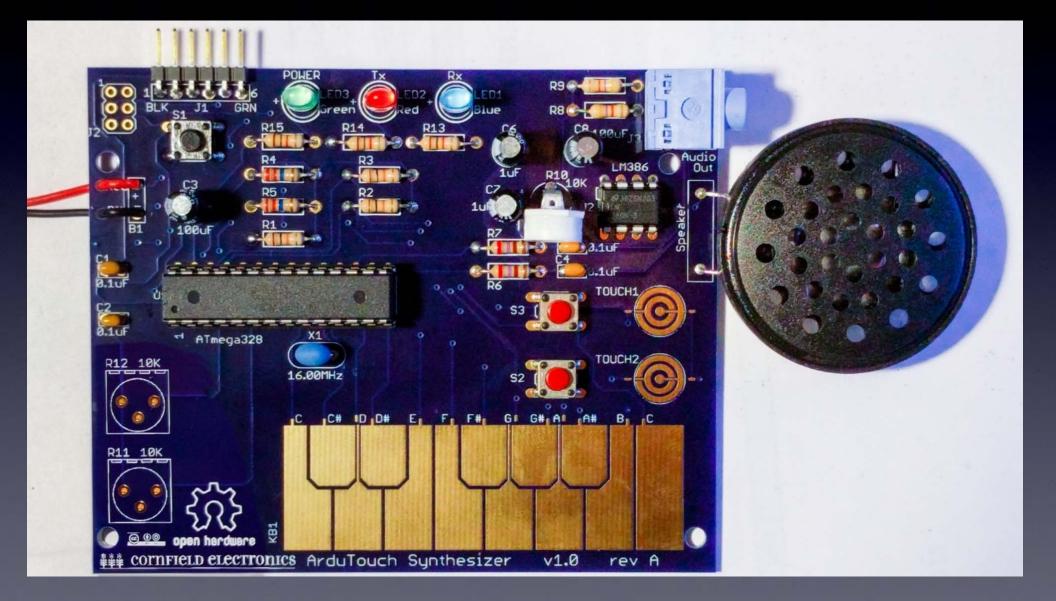




Battery pack



Done!



Let's make noise!

