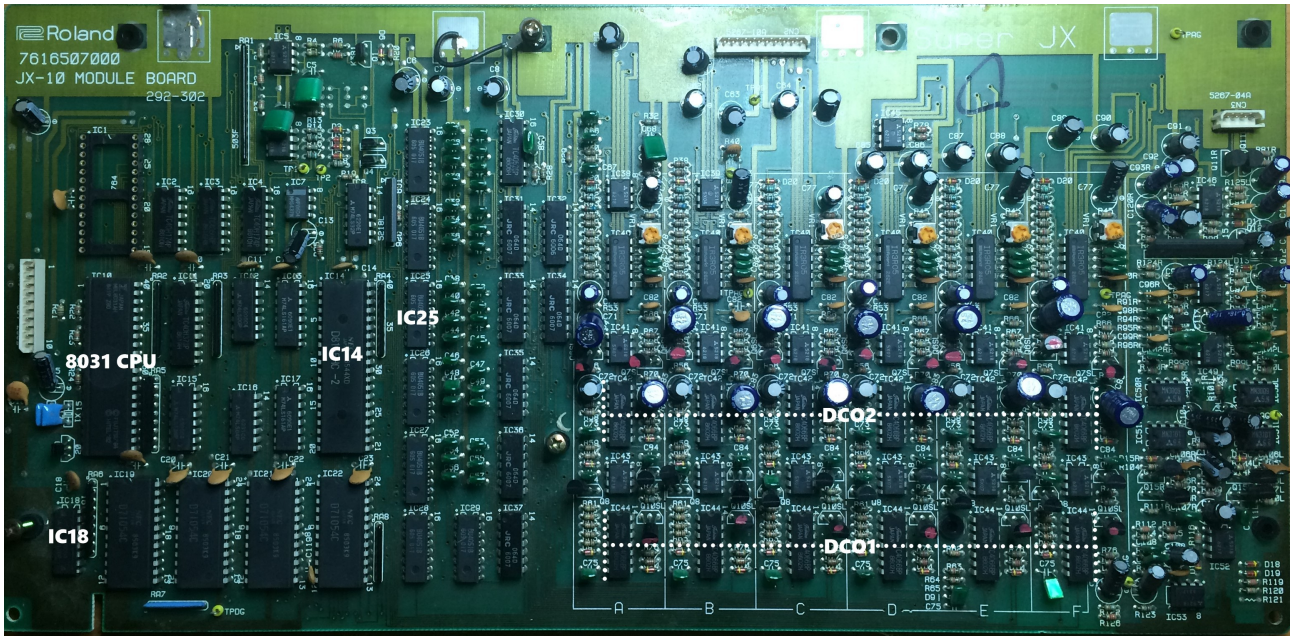


# JX PWM BASIC WIRING GUIDE V1.0

Welcome to the draft version which is intended as a “get you going” whilst the main documentation is being prepared by Serge..

First an easy locator picture for the chips we are concerned with on the JX10 soundboard.....

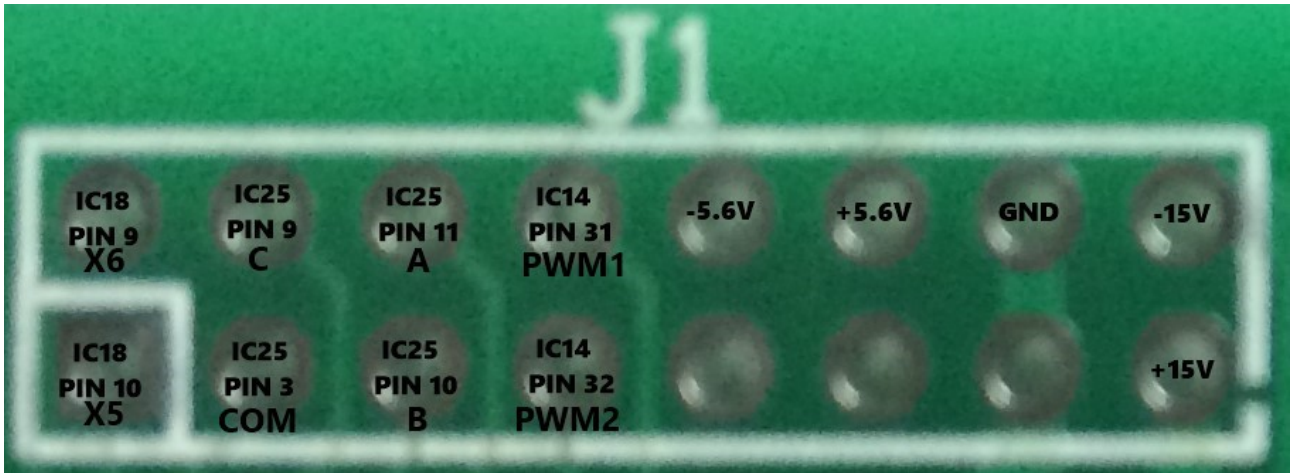


8031 CPU to be replaced with 80C320 CPU  
IC18 provides the 4051 select signals (X5/X6)  
IC14 provides the PWM1 and PWM2 select signals  
IC25 provides the 4051 COM and A/B/C signals

All the IC`s under the dotted line in the DCO1 section are numbered as IC44 and are referred to as IC44 A, IC44 B etc up to IC44 F as indicated by the screen printed A-F at the bottom of the soundboard, likewise all the IC`s in the DCO2 section are numbered as IC42 and follow the A-F pattern.

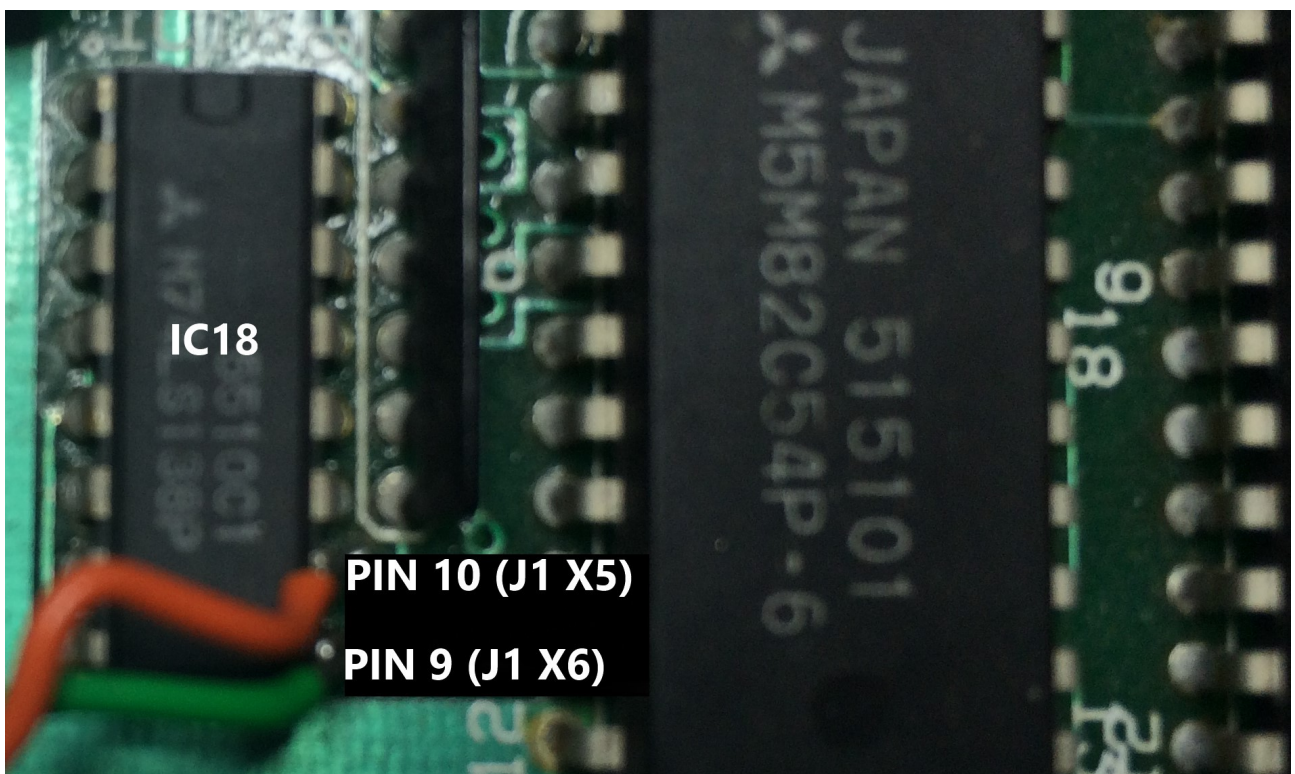
Each pair of IC42 and IC44 make up one voice of the JX/MKS synthesizer.

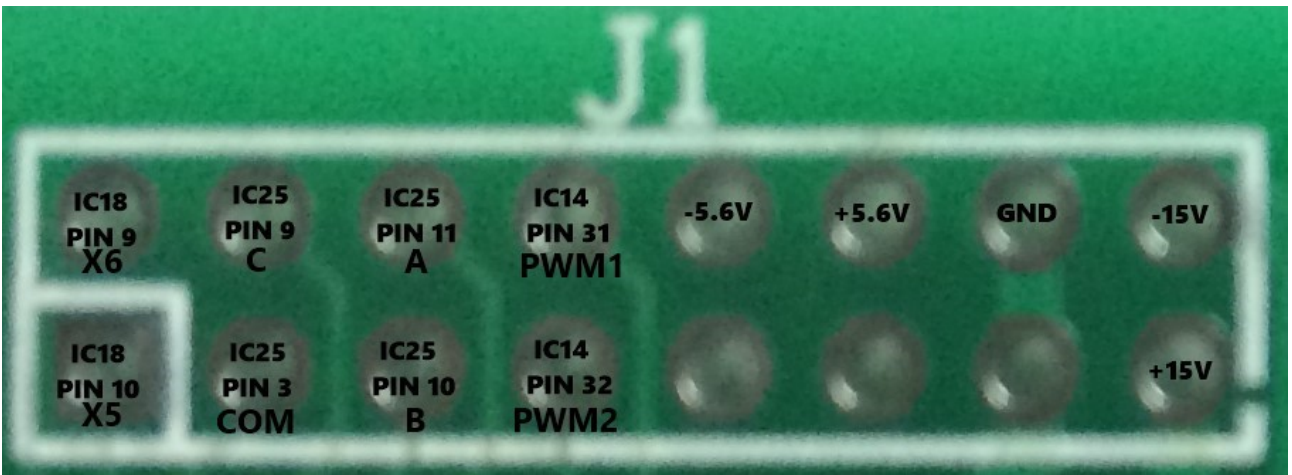
## J1 header



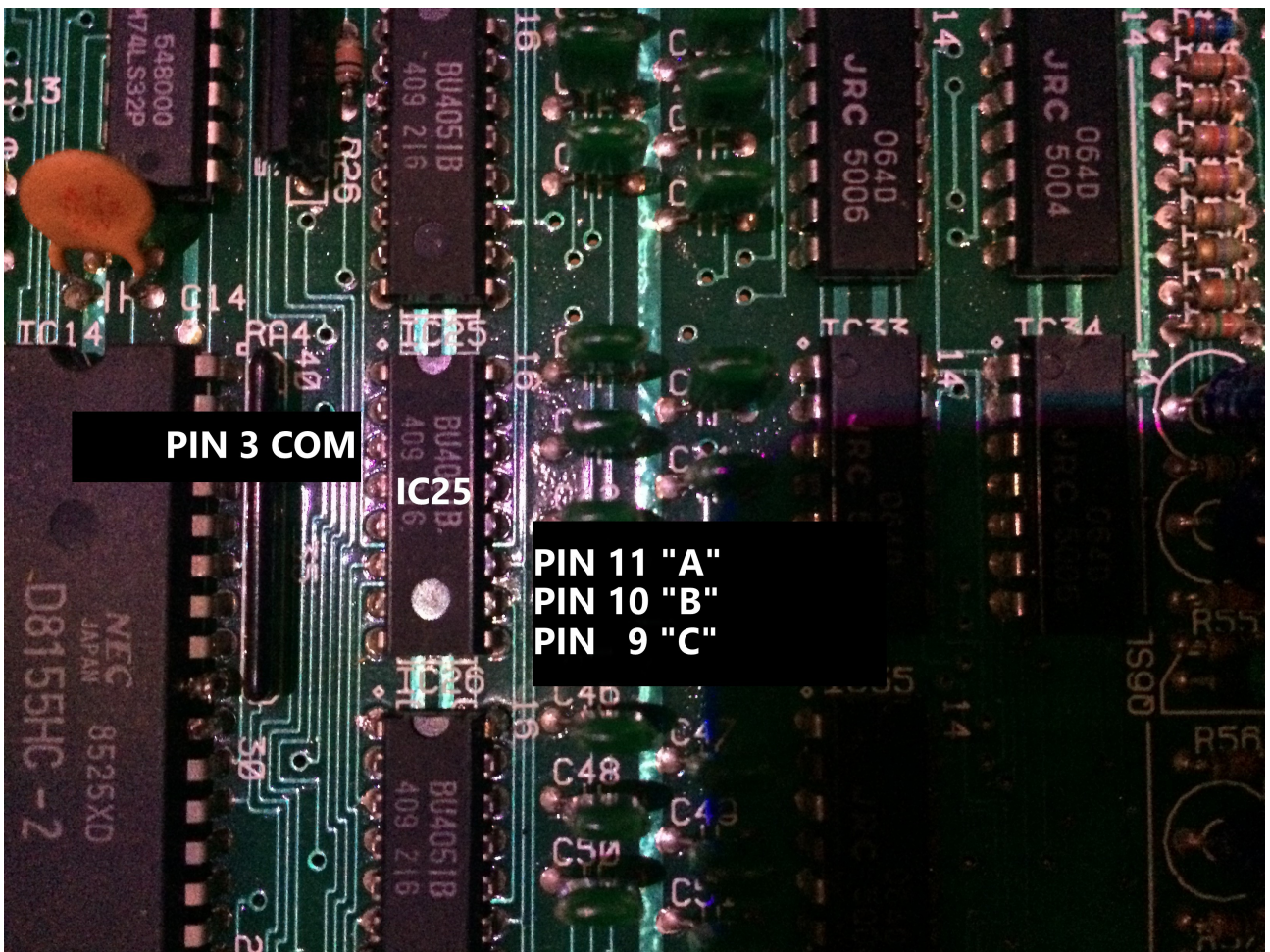
The J1 Header on the PWM board takes in the control signals and power from the soundboard

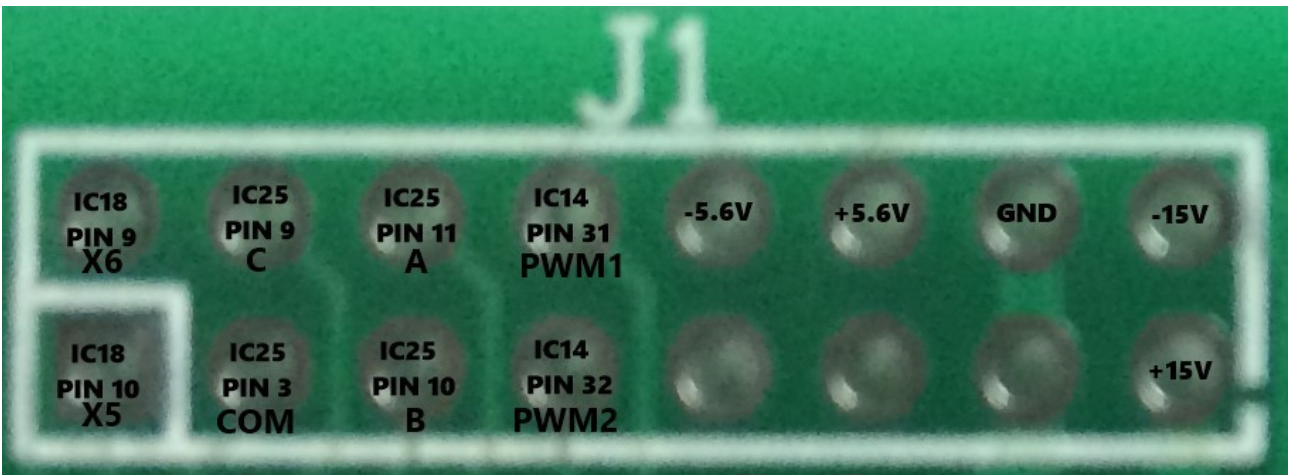
Starting from the left connect IC18



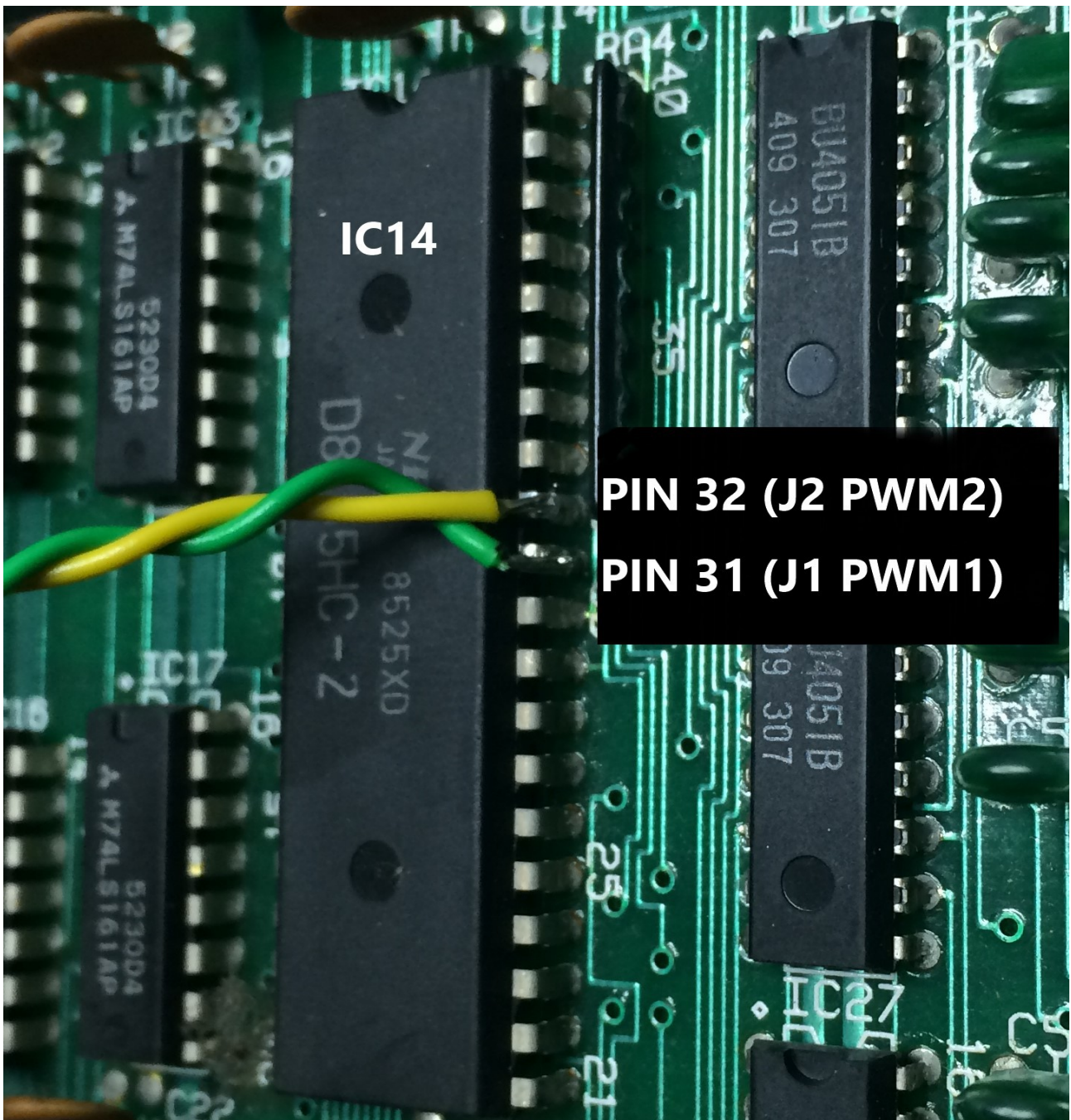


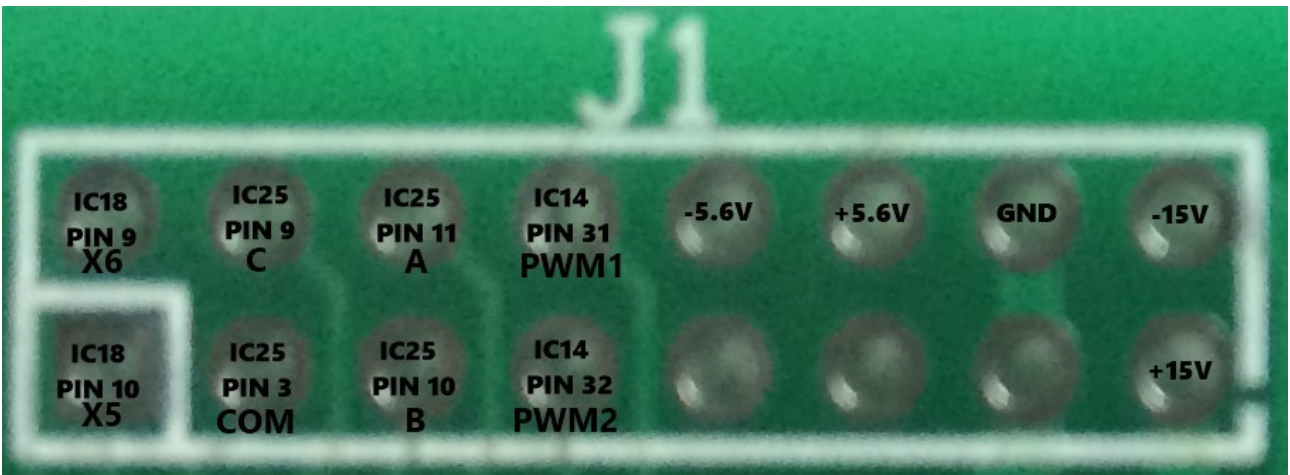
Next IC25



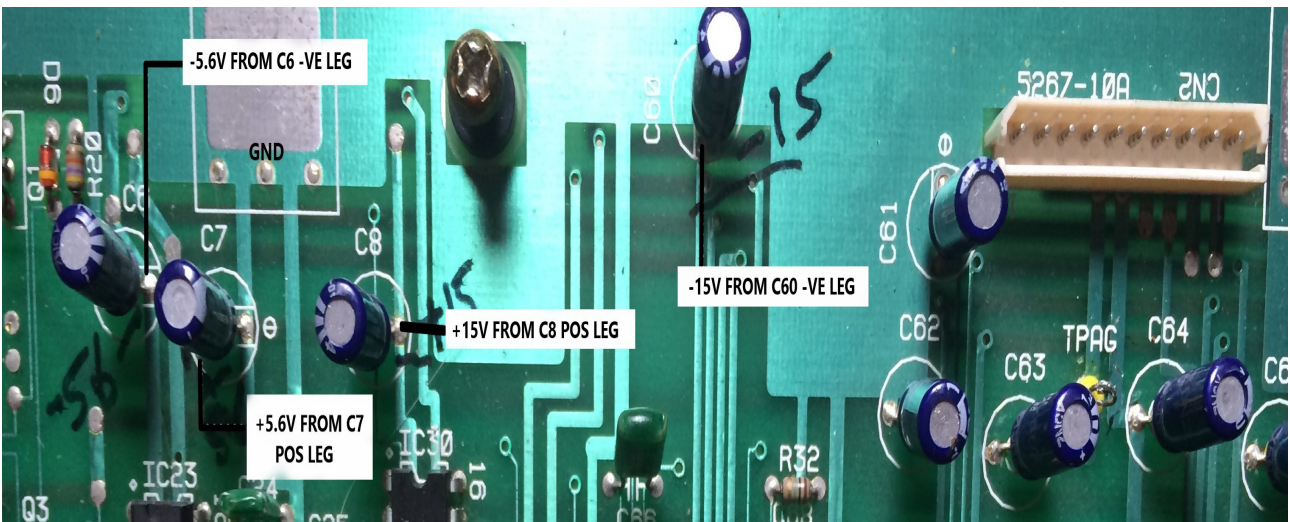


Now IC14

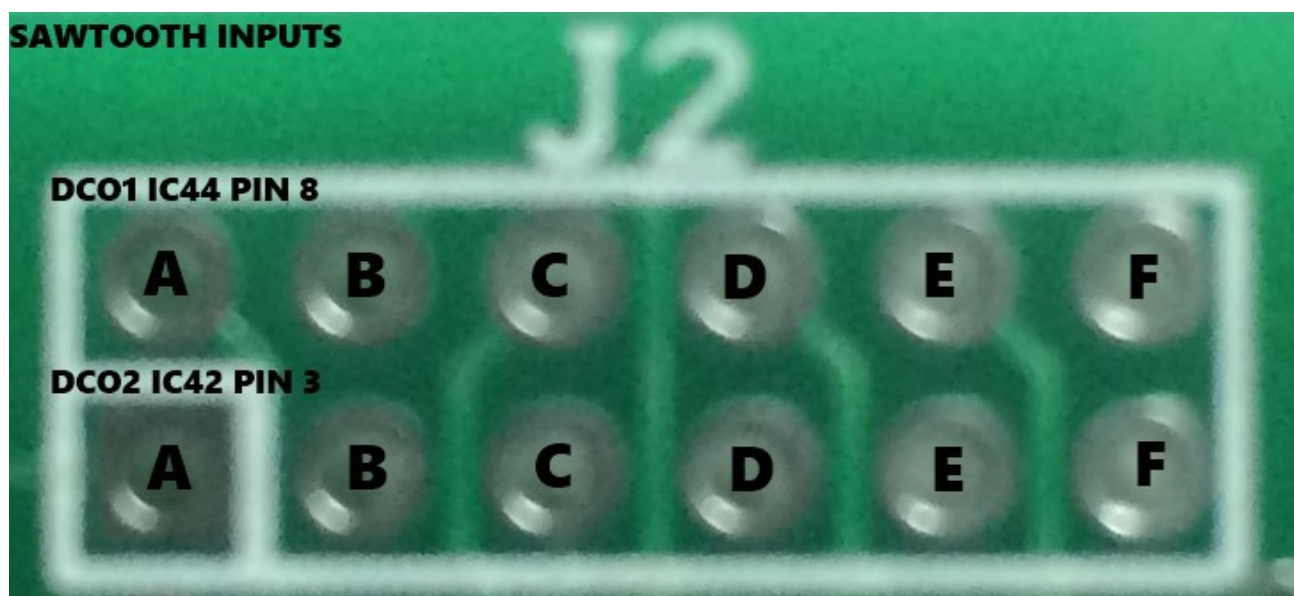




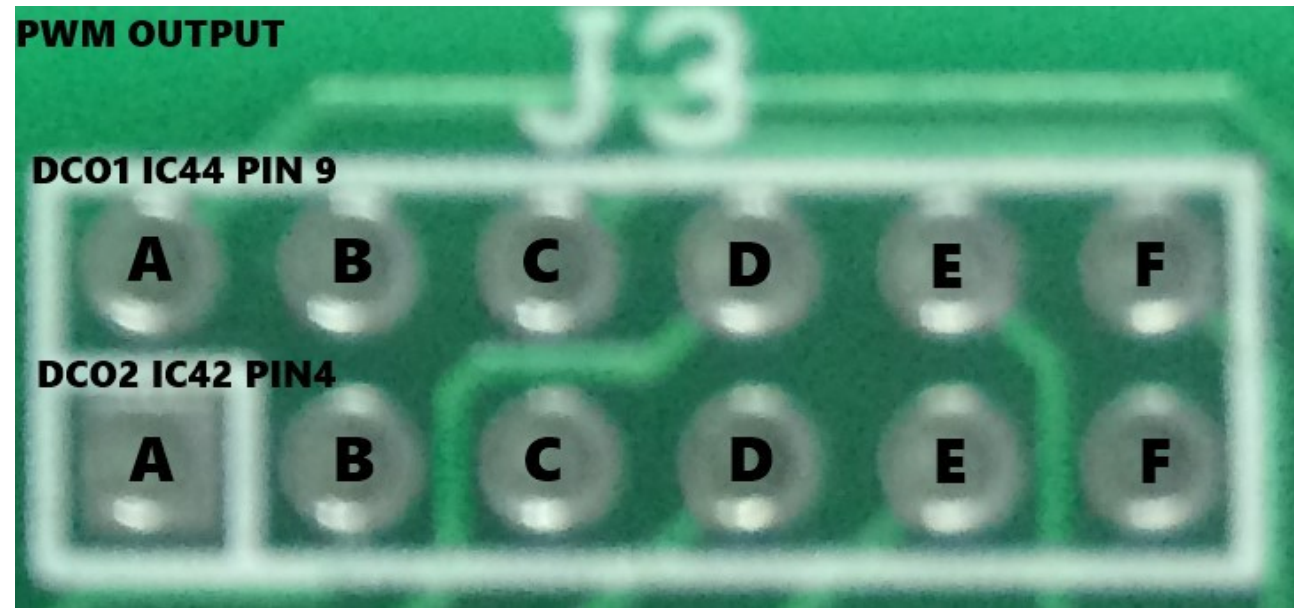
And finally some power..and please note that only one connection is required to each of the +/- 5.6V pins and the GND pin.



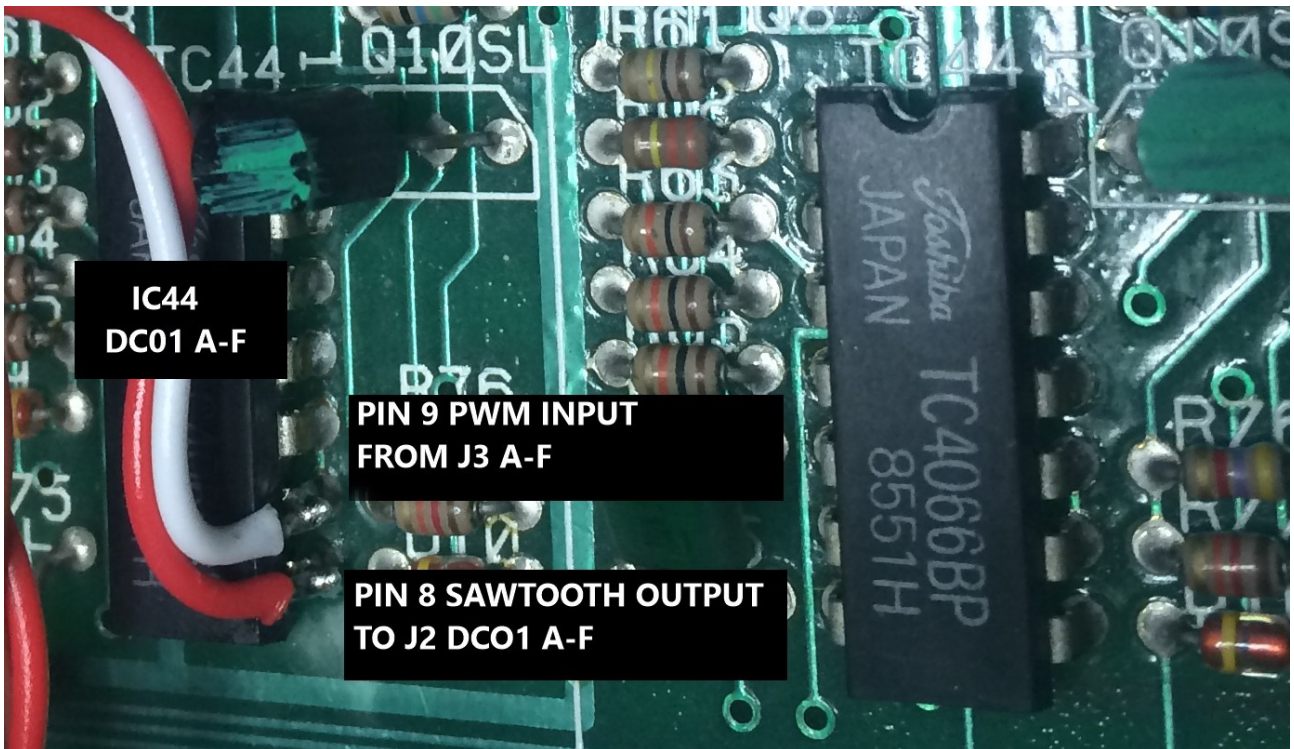
J2 takes in the Sawtooth waveform from the JX.....



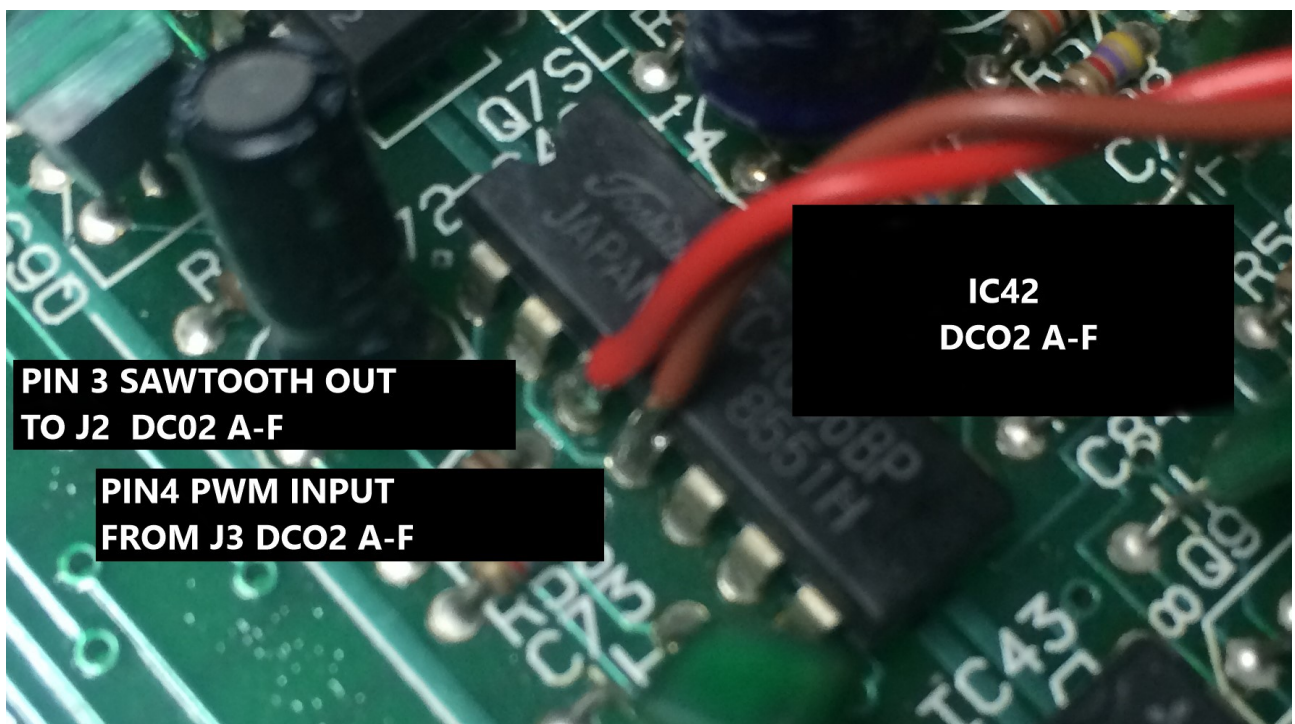
...And J3 sends the PWM waveform back



Each set of DCO1/DCO2 wiring is identical A-F so here is DCO1....



...And DCO2.



So the end product looks something like this...

