ADDAC System

ADDAC305 MANUAL LATCHES

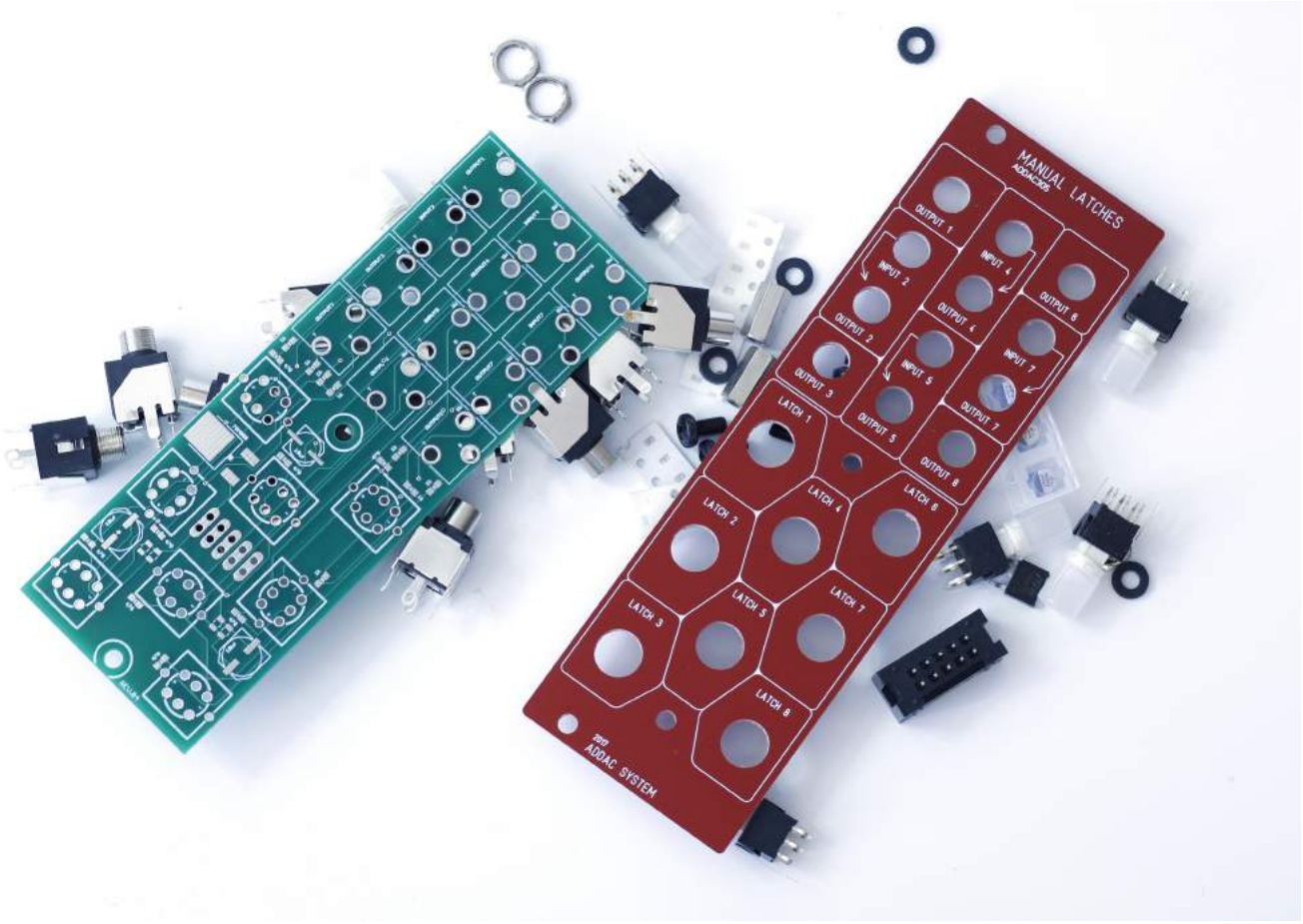
ASSEMBLY GUIDE

Revision.01 November.2017

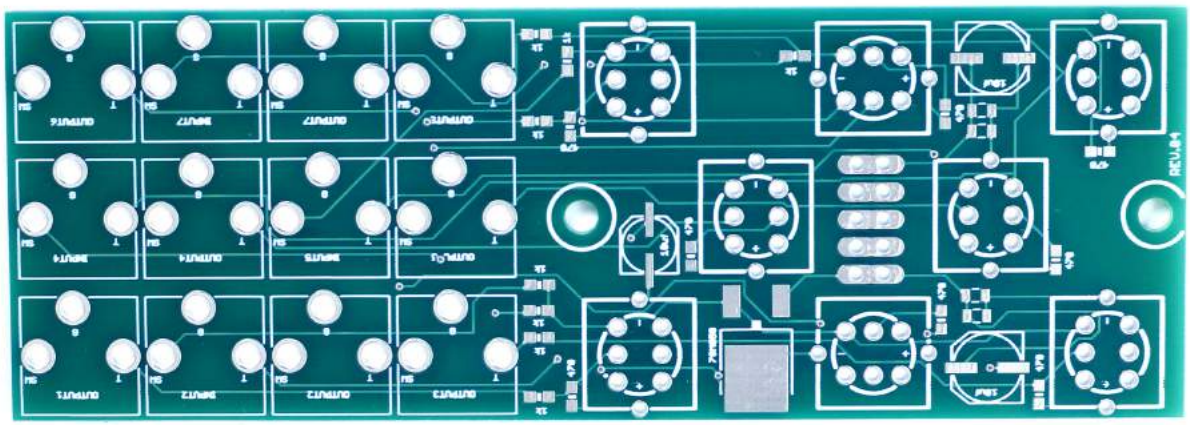
ADDAC305 Assembly Guide

November.2017

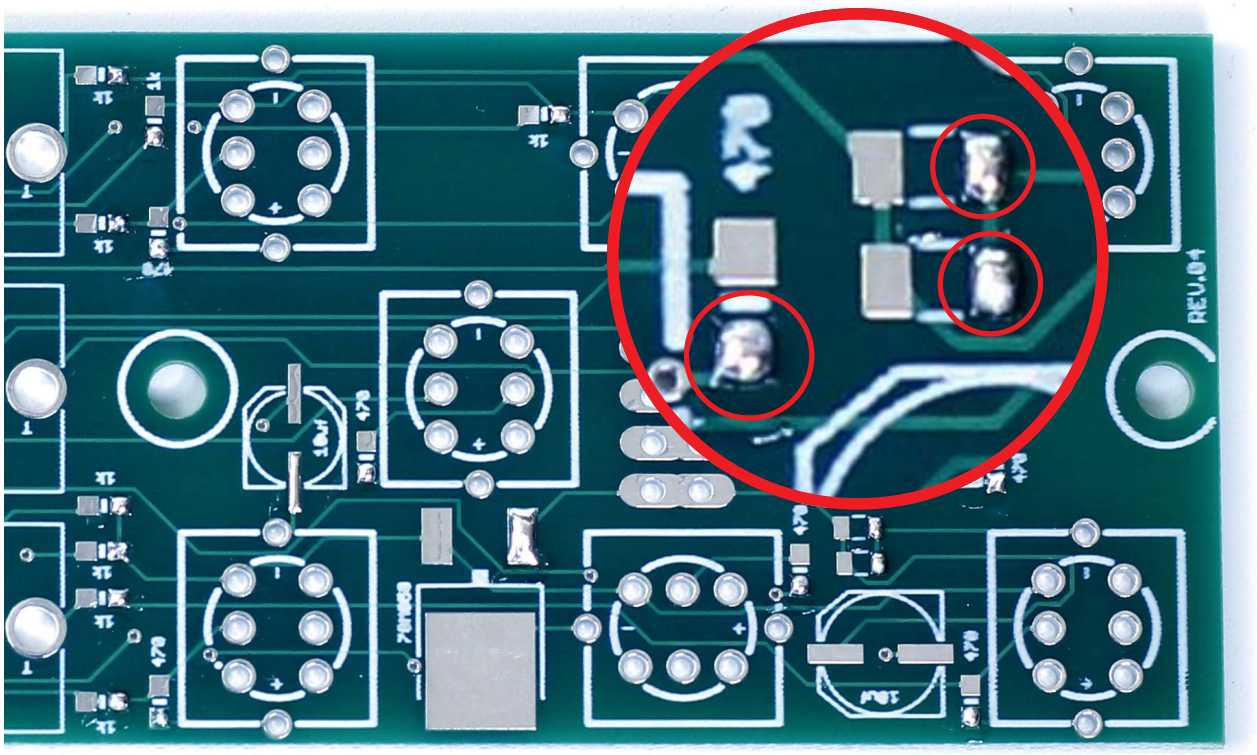
Parts included in the kit:
1x Front Panel
1x Pcb
3x 10uF SMD Capacitors
4x 100nF SMD Capacitors
8x 1k SMD Resistors
8x 470R SMD Resistors
1x 78M05 IC
2x 10mm female/female spacer
4x M3 fiber washer
6x M3 screws
3x Nutted Jacks
9x No-nut Jacks
3x Jack nuts
8x Push Buttons
1x 2x5 IDC Connector
1x Ribbon cable



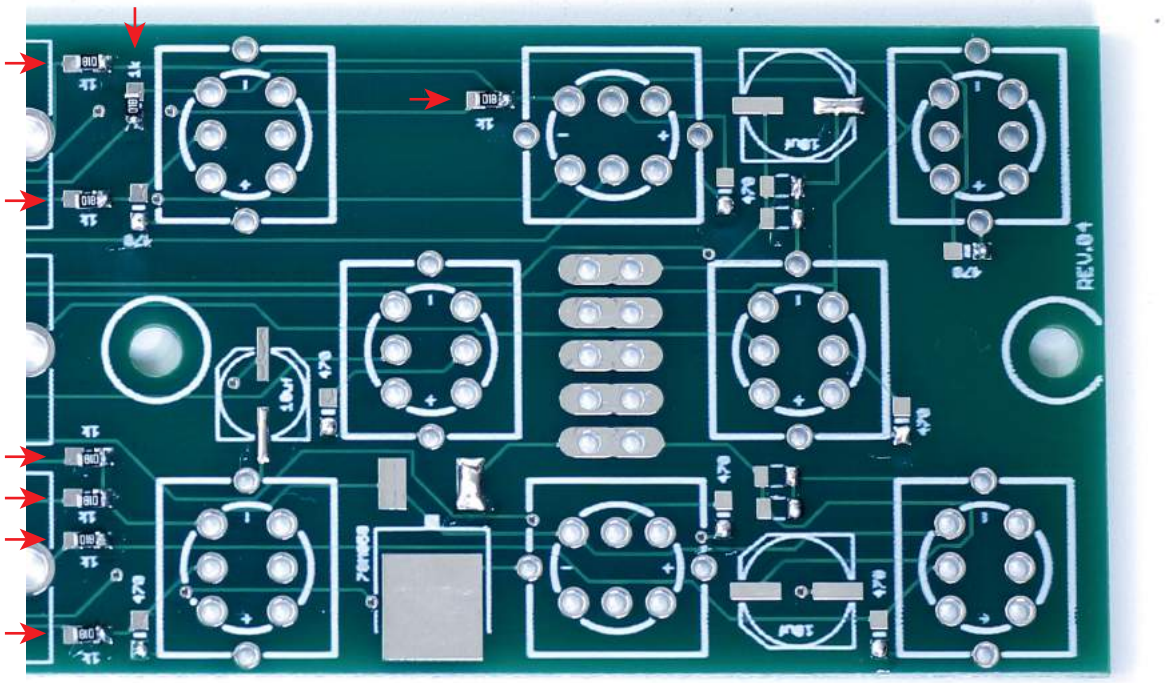
STEP 1:
Locate Pcb and surface mount parts.



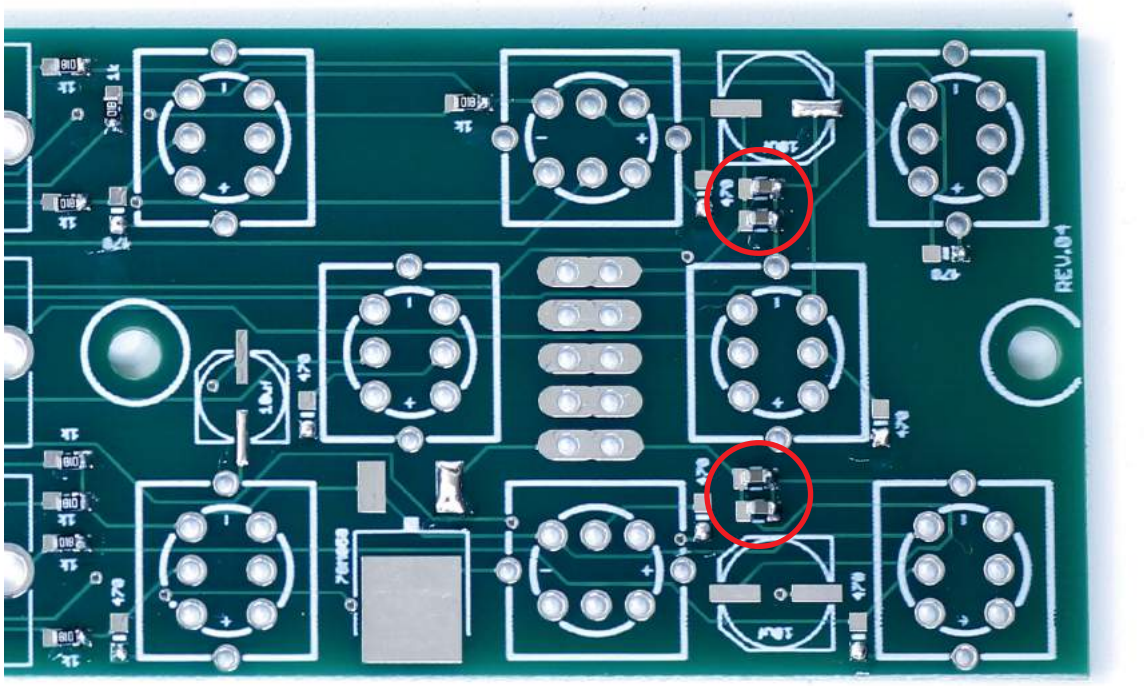
STEP 2:
Start by adding a bit of solder to every smd part right pads, this will make it easier to solder the surface mount parts. If you're left handed then add solder to the left pads.



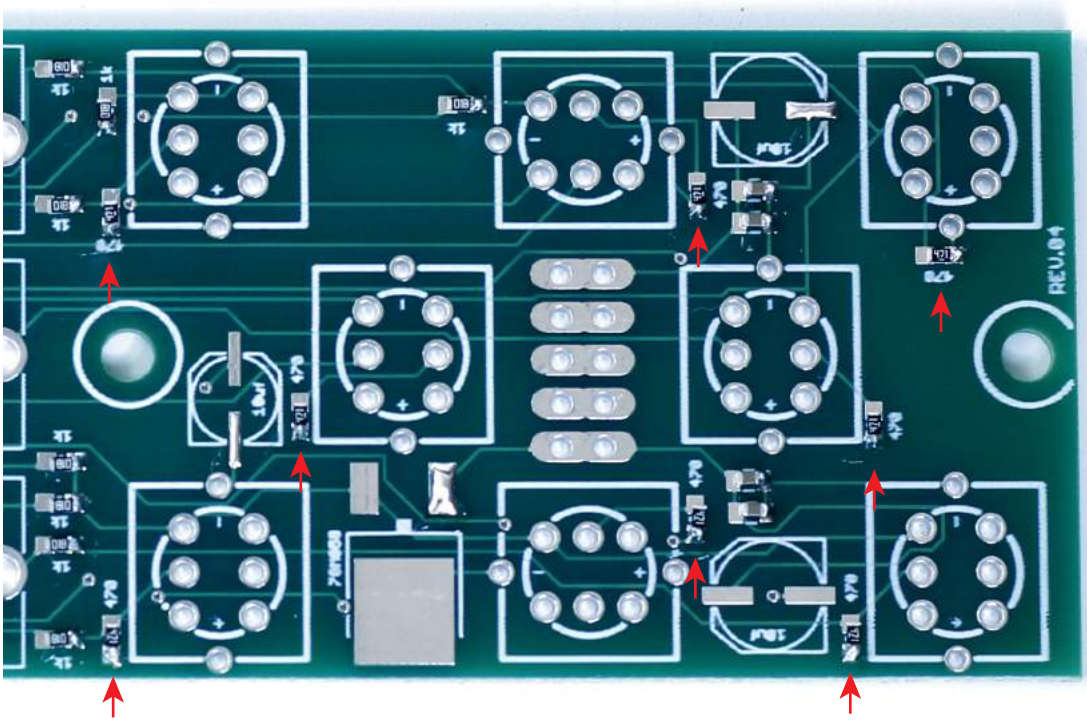
STEP 3:
Now let's place all 8 of the 1k resistors, use a tweezer and solder the right pad of each by heating the already added solder and place the part in place.



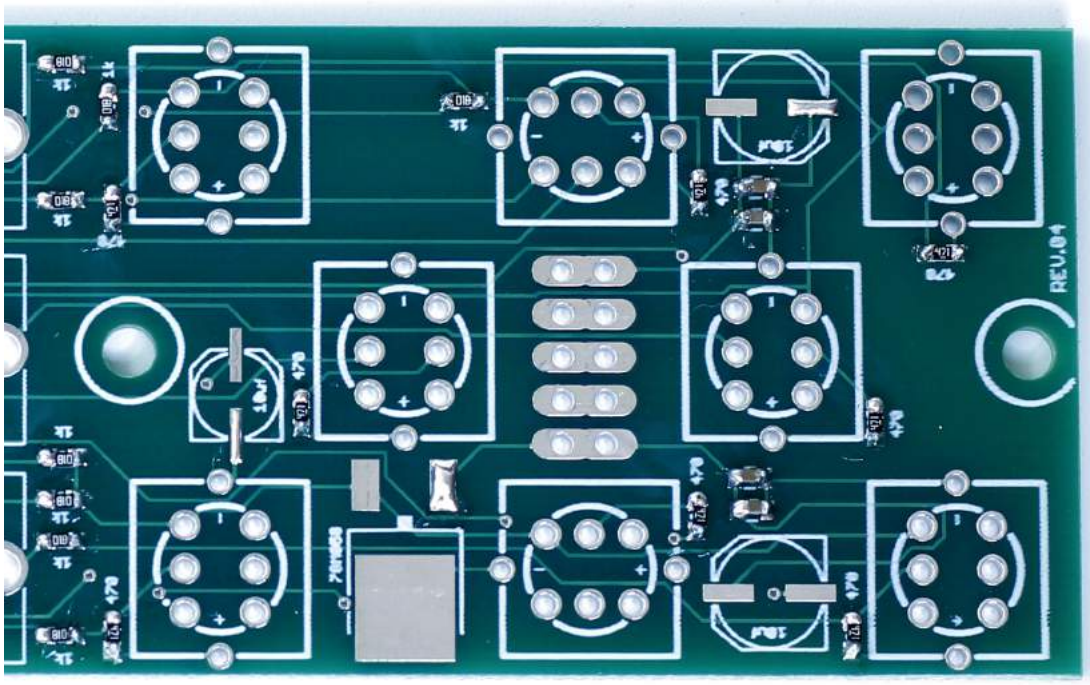
STEP 4:
Next solder the right pad for all four 100nF capacitors.



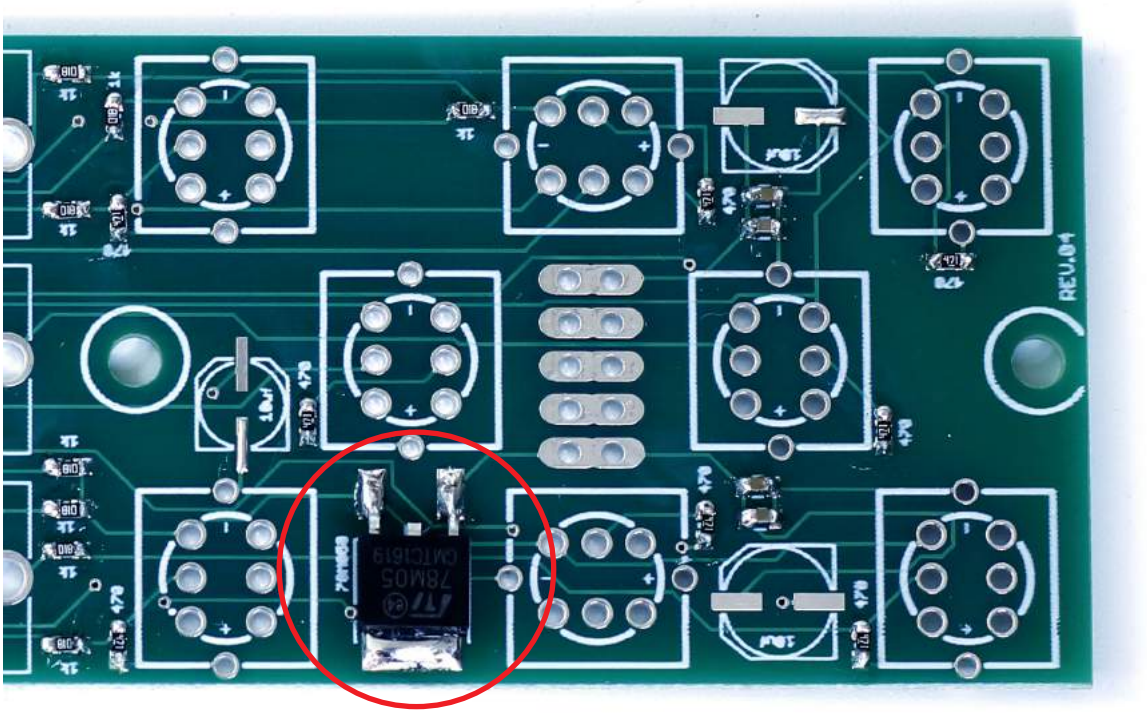
STEP 5:
Repeat the process for the eight 470R resistors.



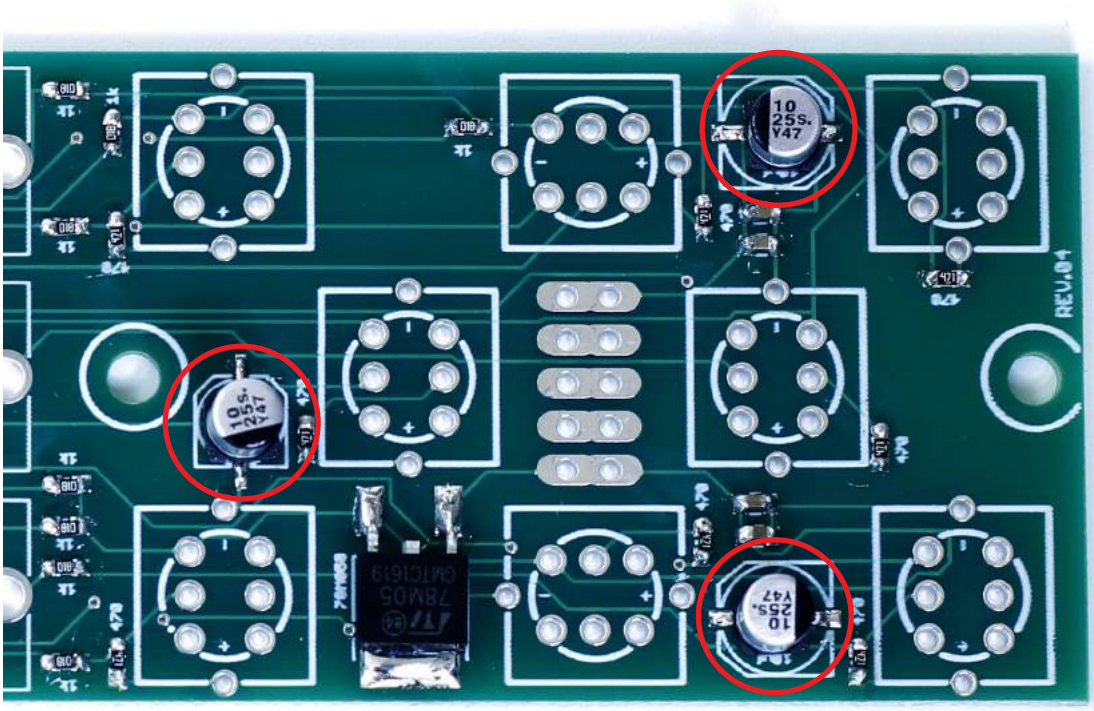
STEP 6:
Finally rotate the pcb 180 degrees and solder all left pads of all smd parts.



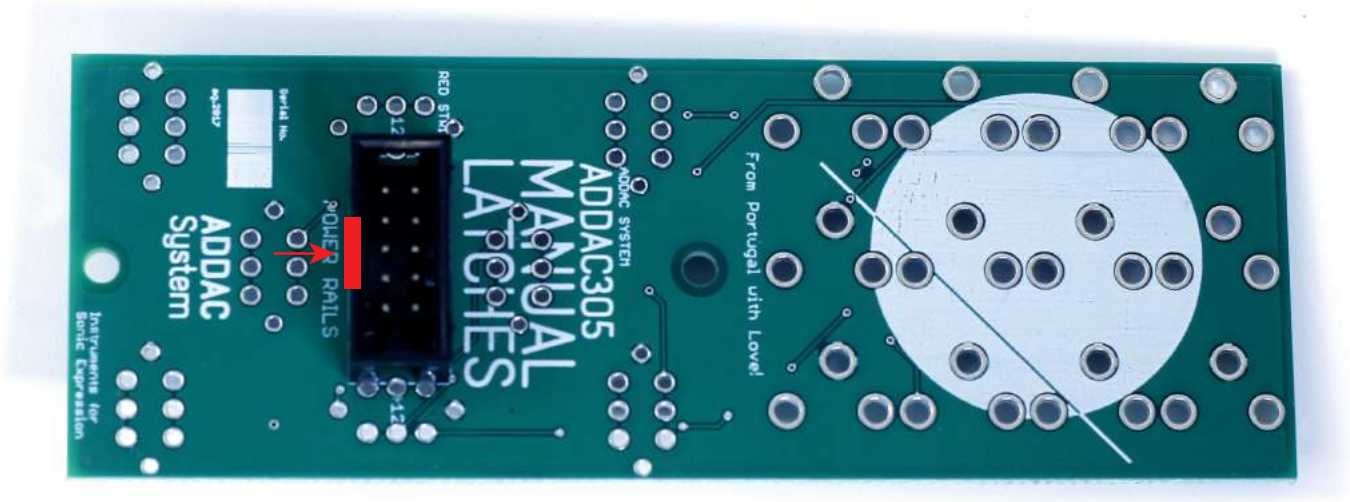
STEP 7:
Place and solder the 78M05 IC.



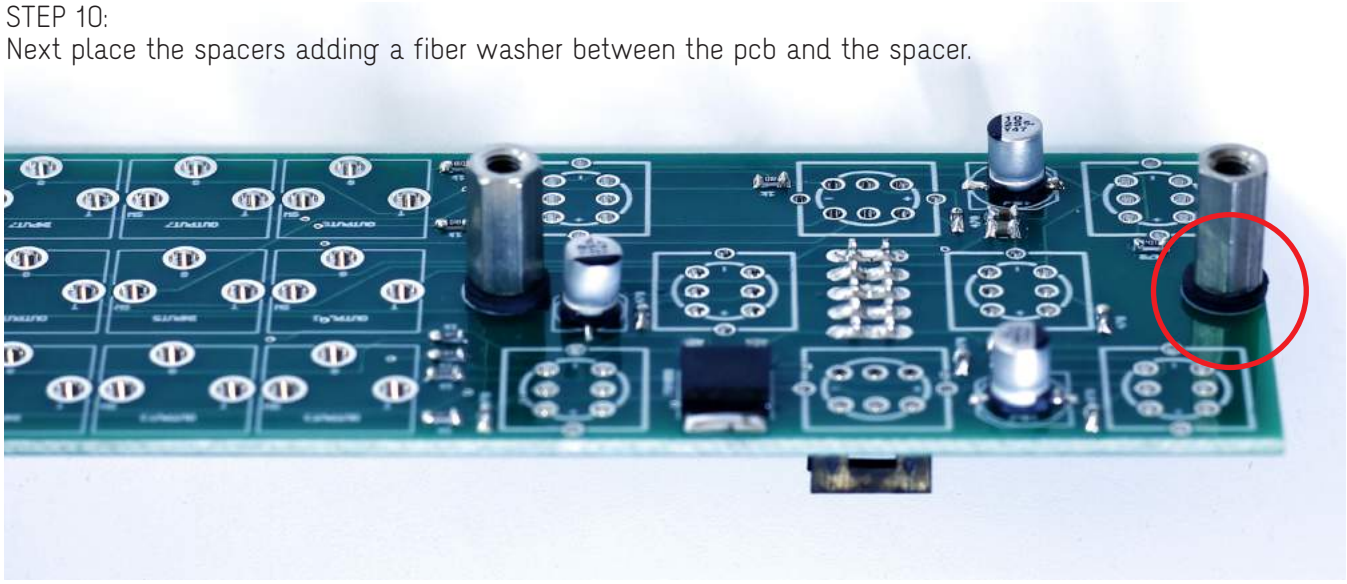
STEP 8:
Next place and solder the three 10uF capacitors.

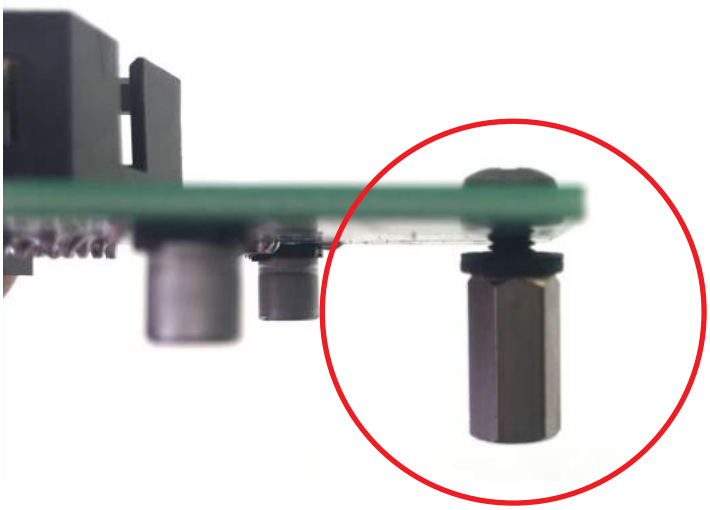


STEP 9:
Place and solder the IDC power connnector, note that the indent faces down.

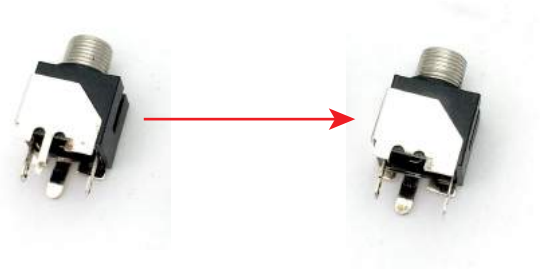


STEP 10:
Next place the spacers adding a fiber washer between the pcb and the spacer.





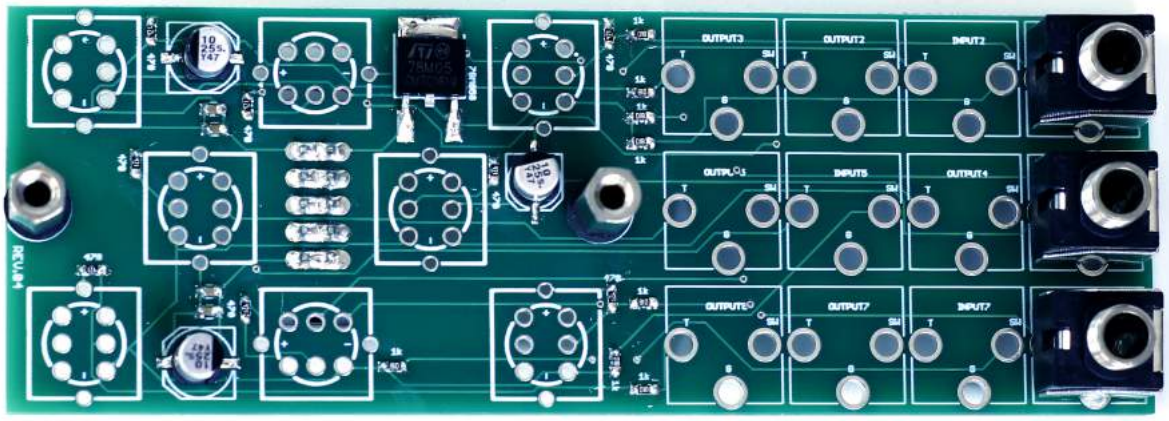
STEP 11:
Locate the jacks and cut the smallest legs like shown below.



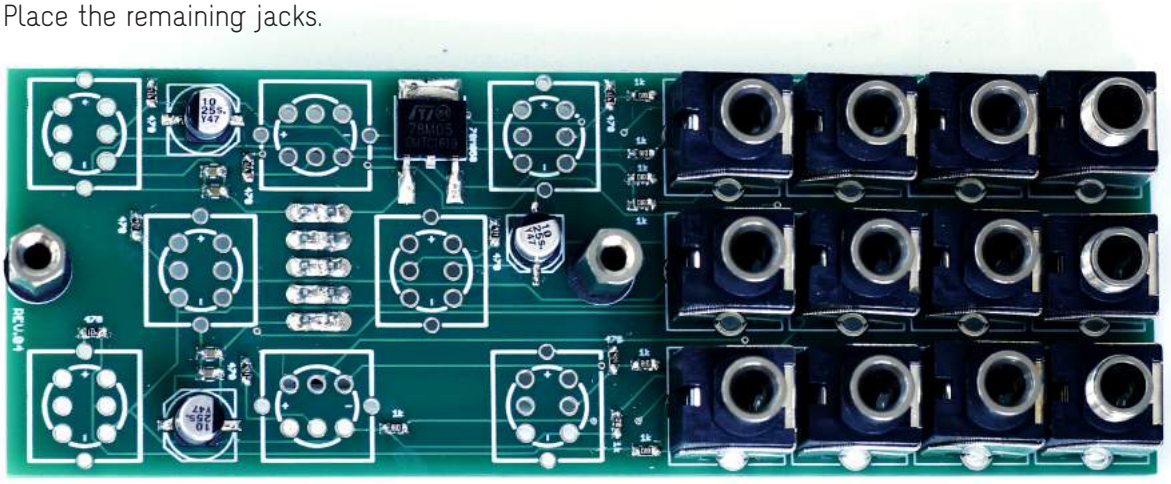
We'll now populate all front panel parts:

DO NOT SOLDER ANY PART UNTIL ALL PARTS ARE PLACED!

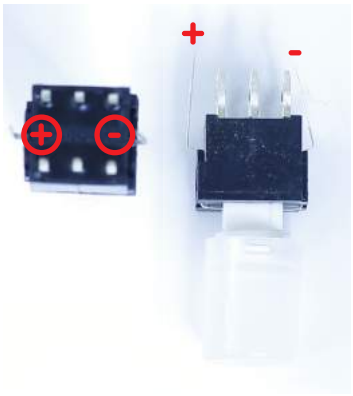
STEP 12:
Locate and place, do not solder, the 3 jacks with threaded shaft at the bottom.

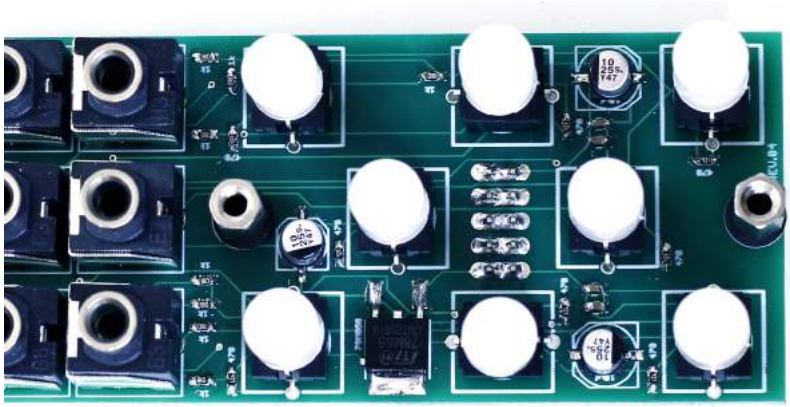


STEP 13:
Place the remaining jacks.

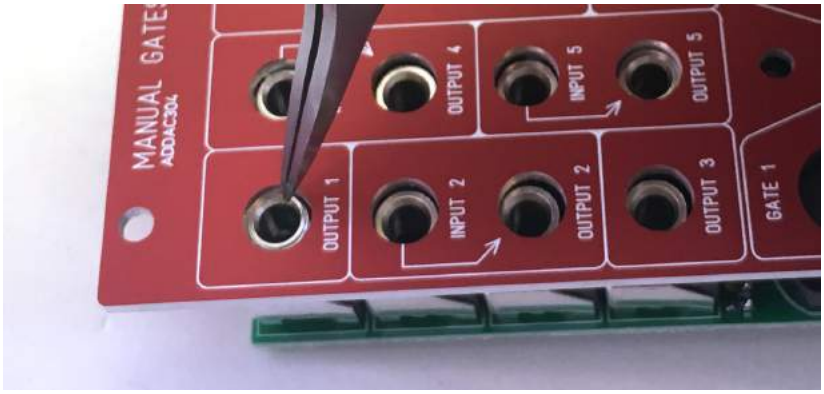


STEP 14:
Next let's place latch buttons, note that the buttons have polarity because of the leds inside, longer leg is the positive (+) side. The bottom of the button also shows + & - markings to show the polarity.
Place these matching the button's polarity to the markings printed on the pcb.

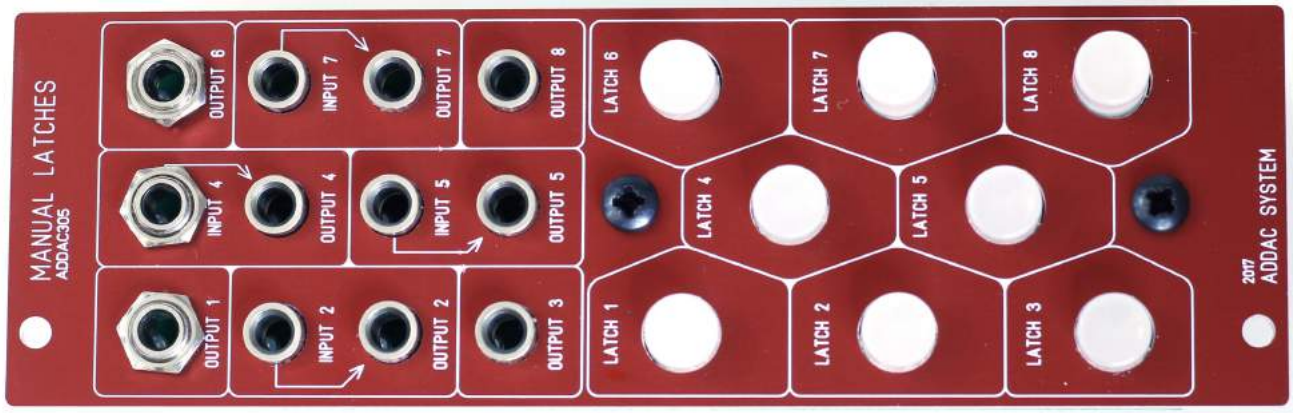




STEP 15:
Next let's place the front panel, use a tweezer to help getting all the jacks in their holes.



STEP 16:
Tighten the 3 jack nuts and the 2 screws.



We'll now describe s a good practice that minimizes any damage that may occur to all front panel parts for continued exposure to the soldering iron heat.
It happens often that users not very used to soldering spend too much time on each pad. An experienced solderer will take 1-2 seconds for each pad, this minimizes the heat the part is exposed to.
If the solderer takes too much time on each pad the part may heat to a point where the plastic will start melting/deforming and may render the part useless.

We'll exemplify the process with jacks.

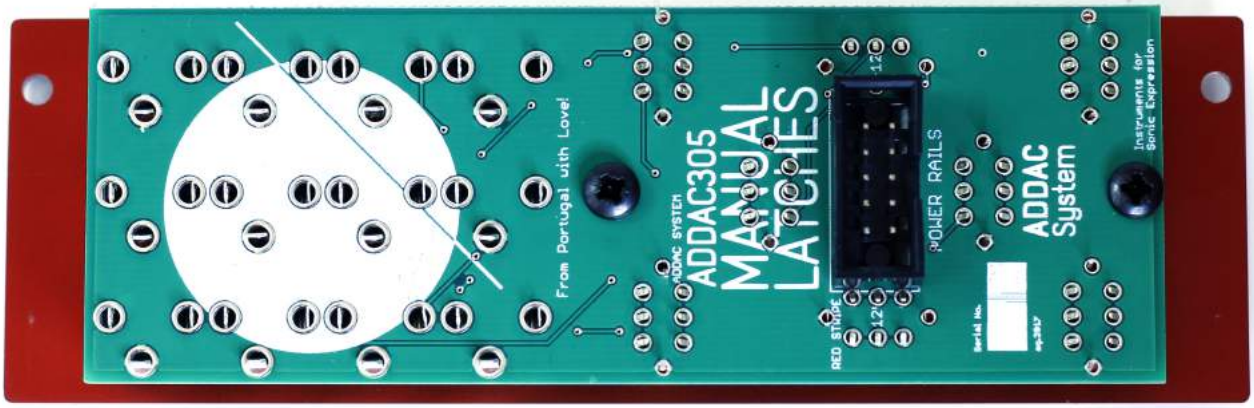
Step 1 : Start by soldering only one pad of each jack first.

Step 2 : Then solder a second pad of each jack.

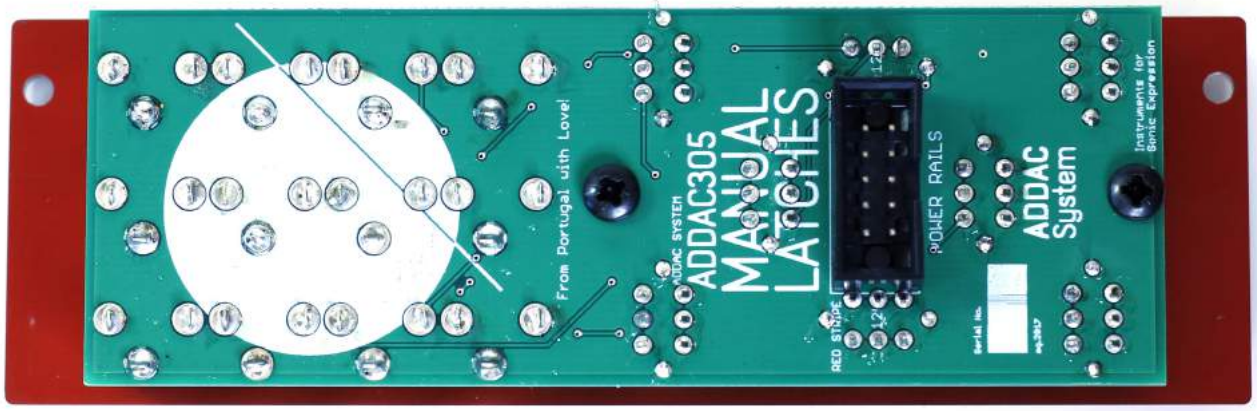
Step 3 : Finally solder the remaining pads of all jacks.

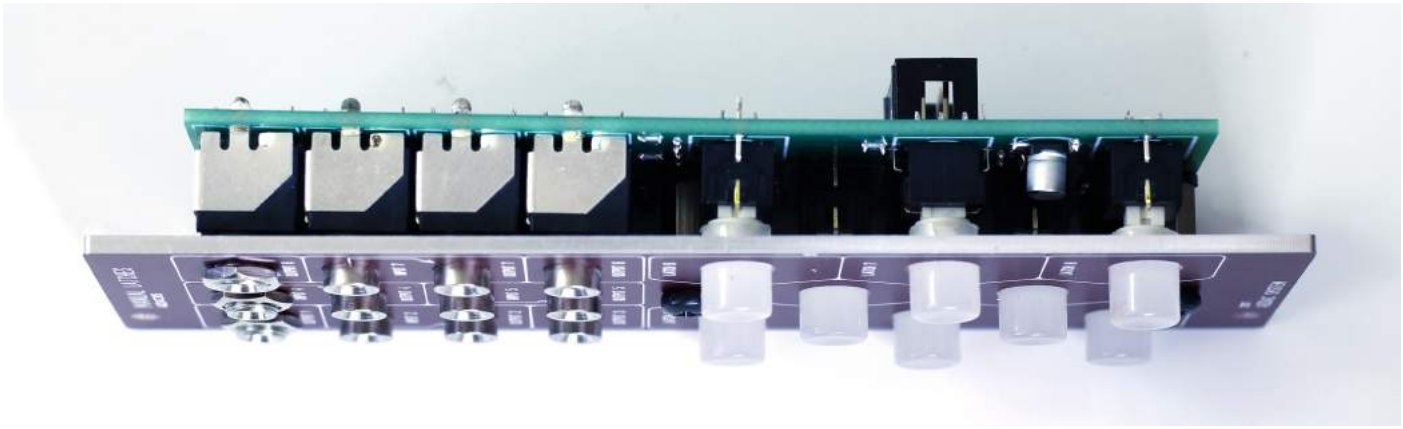
Respecting this very simple process for all parts will guarantee no part will be damaged as they'll have time to cool down between every soldered pad.

STEP 17:
After all parts are placed we'll now solder all pads.
Follow the process described in the previous page.



STEP 18:
Once finished it will look like this.





Congratulations, you're done!

For feedback, comments or problems please contact us at:
addac@addacsystem.com

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