ADDAC System

ADDAC304 MANUAL GATES

ASSEMBLY GUIDE

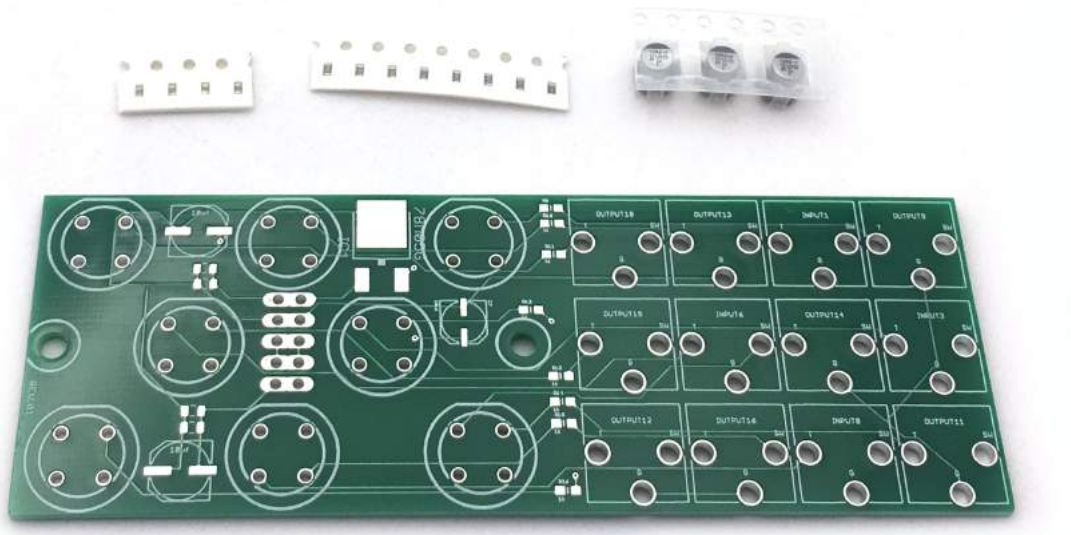
Revision.02 November.2017

ADDAC304 Assembly Guide

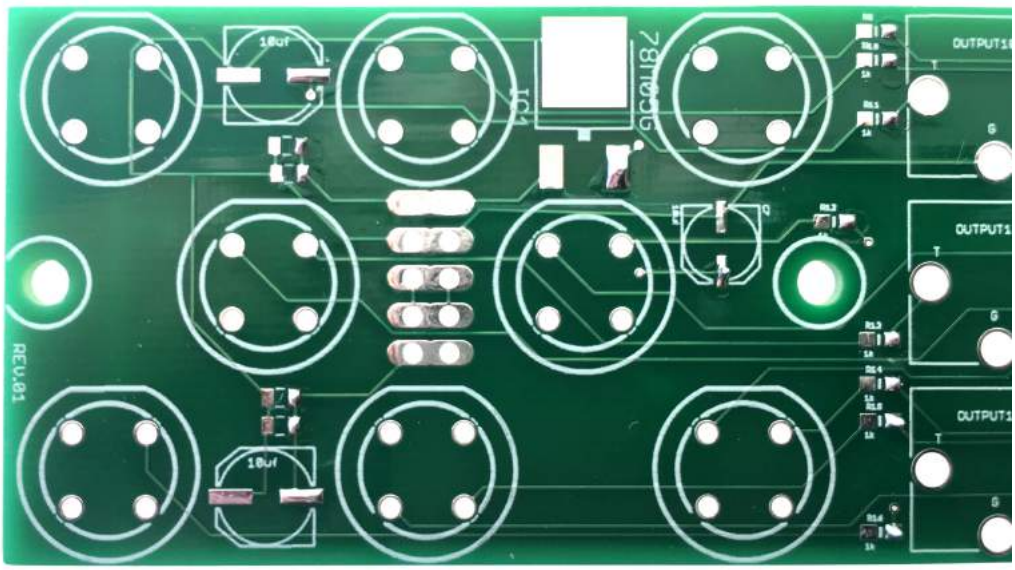
November.2017

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

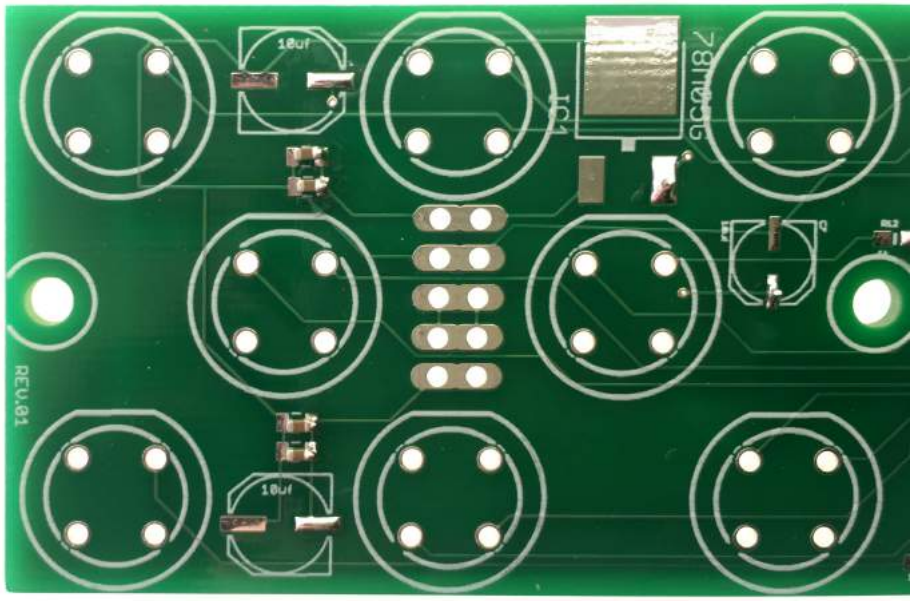
STEP 1:
Locate Pcb and surface mount parts.



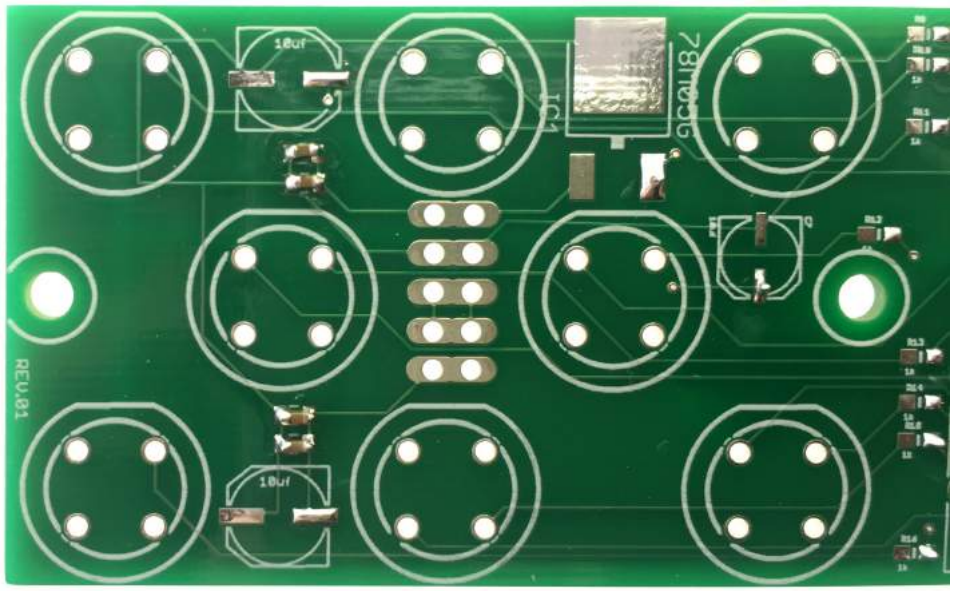
STEP 2:
Start by adding a bit of solder to every smd part right pads, this will make it easier to solder the surface mount parts. If you're left handed then add solder to the left pads.



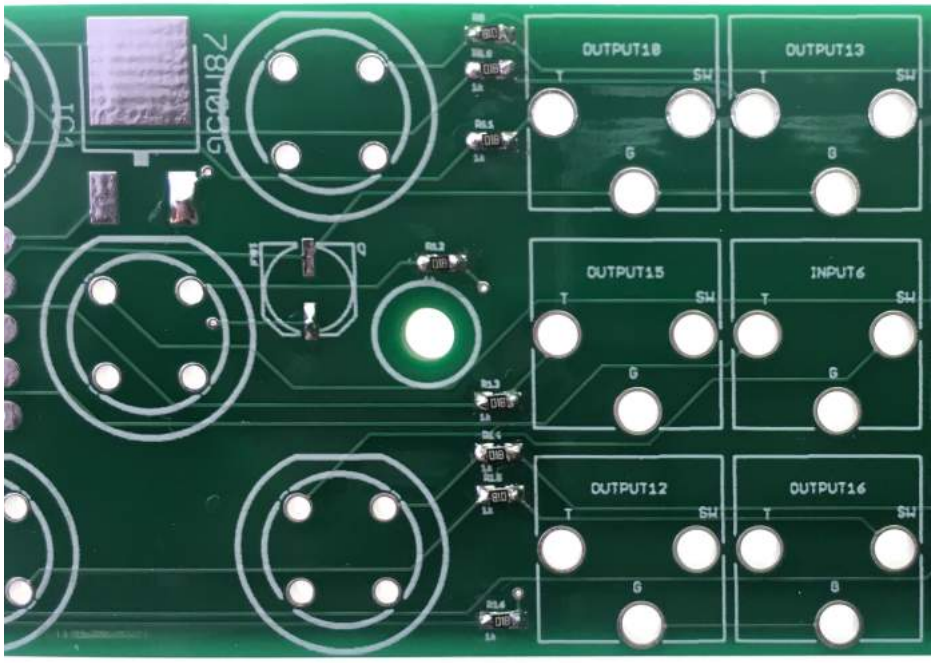
STEP 3:
Now let's place all 4 of the 100nF capacitors, use a tweezer and solder the right pad of each by heating the already added solder and place the part in place.



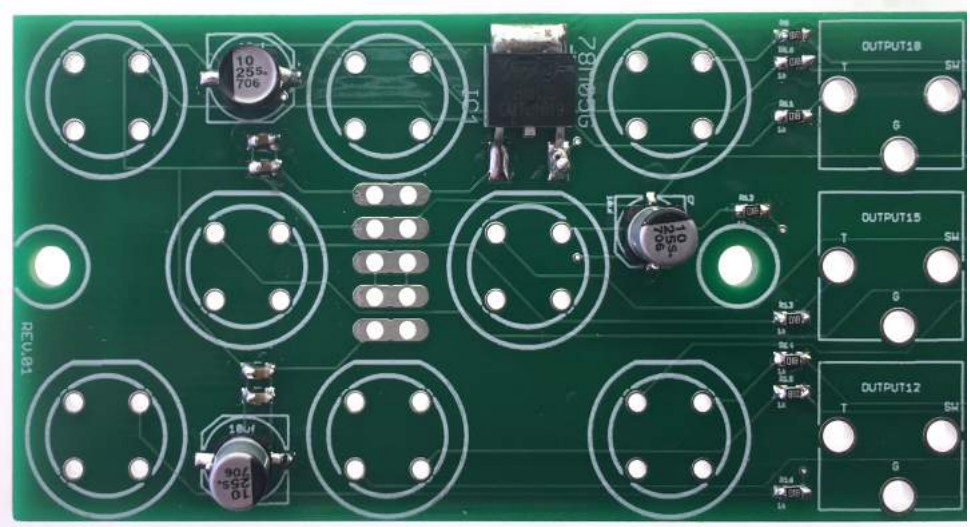
STEP 4:
Next solder all 4 left pads.



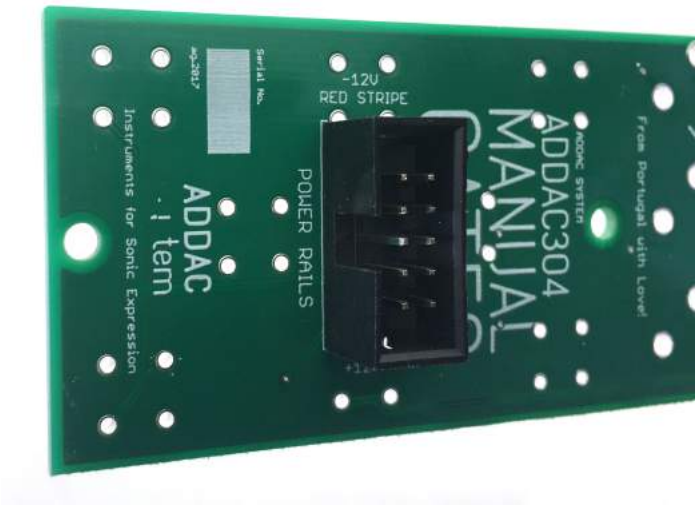
STEP 5:
Repeat the process for all the 1k resistors.



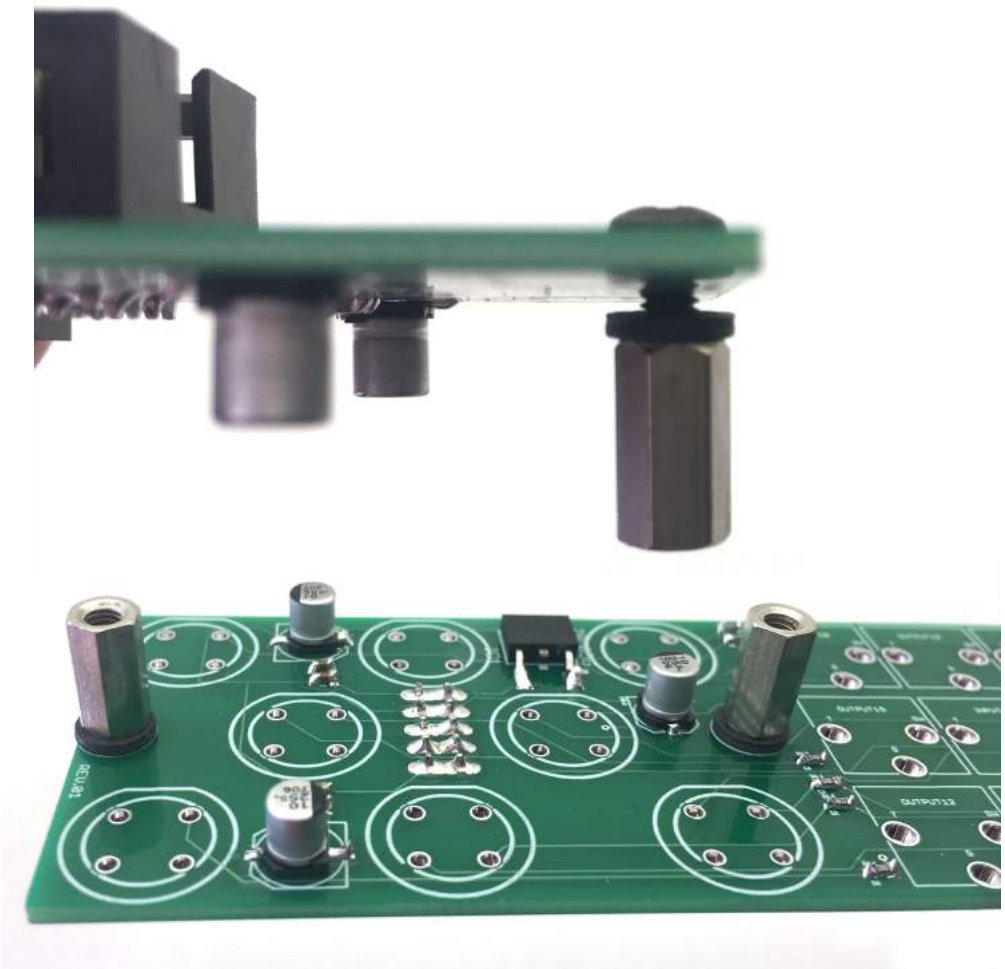
STEP 6:
Finally solder the 78M05 and the 3 10uF capacitors.



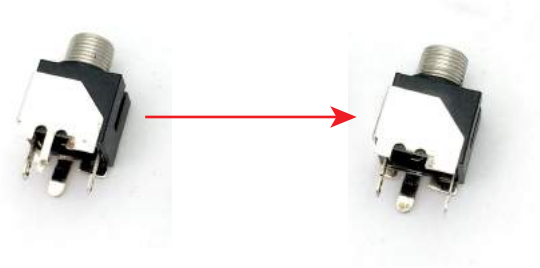
STEP 7:
Place and solder the IDC power connnector, note that the indent faces down.



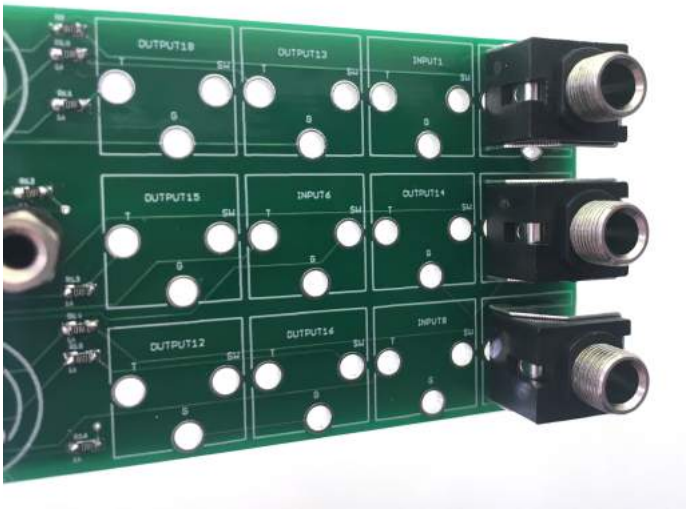
STEP 8:
Next place the spacers adding a washer between the pcb and the spacer.



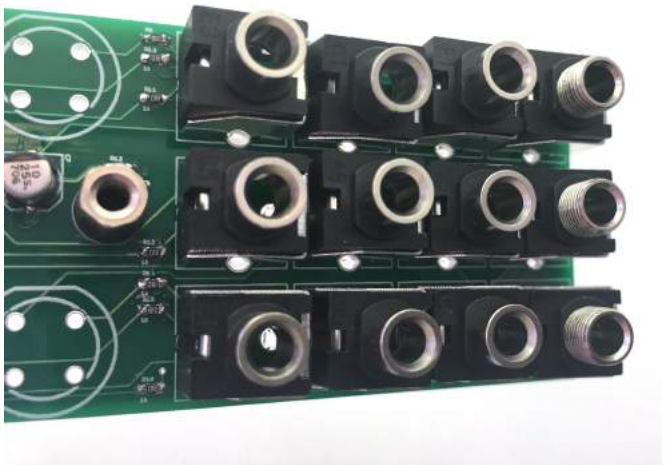
STEP 9:
Locate the jacks and cut the smallest legs like shown below.



STEP 10:
Locate and place the 3 jacks with threaded shaft.



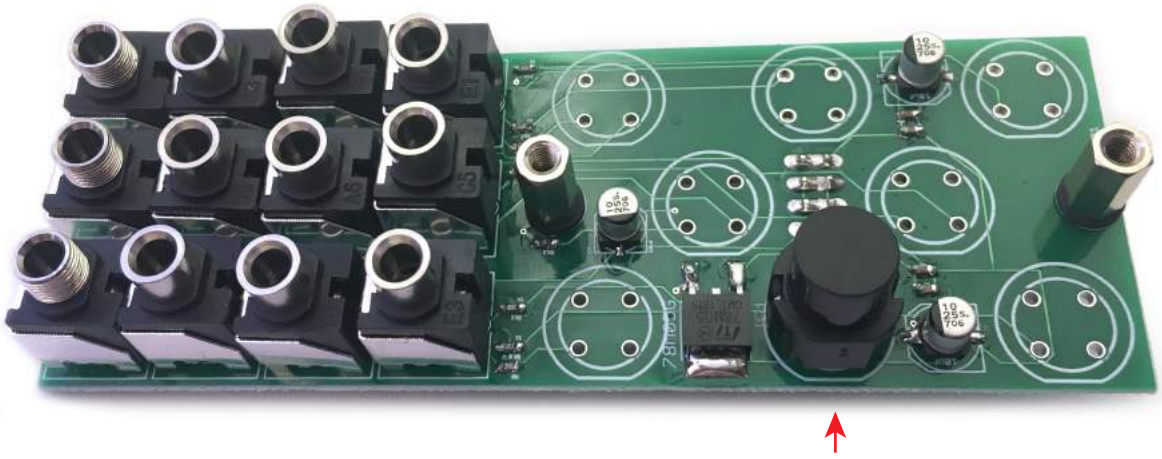
STEP 11:
Place the remaining jacks.



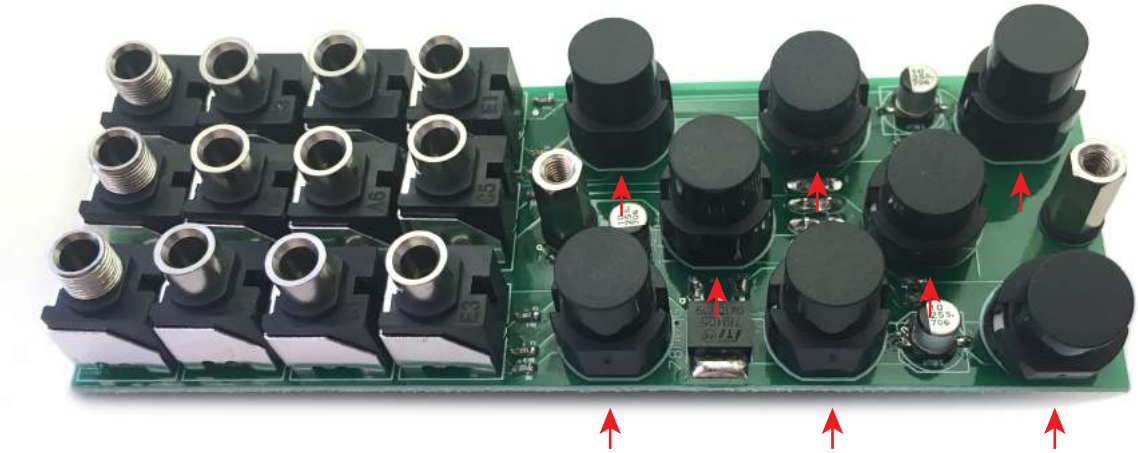
STEP 12:
Now let's place the push buttons, note that there's a specific orientation look for the button's flat face and match it with the pcb print.

STEP 13:
We'll have to trim 2 legs of only one of the push buttons, cut 2mm of each of the legs further away from the button's flat face. Note that you only need to do this to 1 button.

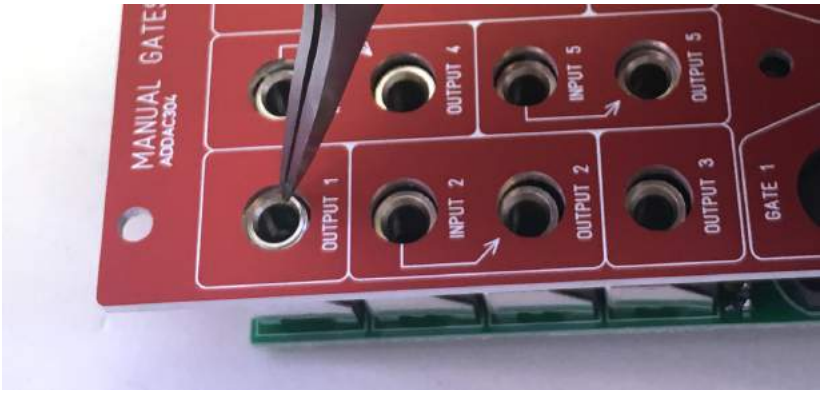
STEP 14:
Place the button with the trimmed legs in the position shown below.

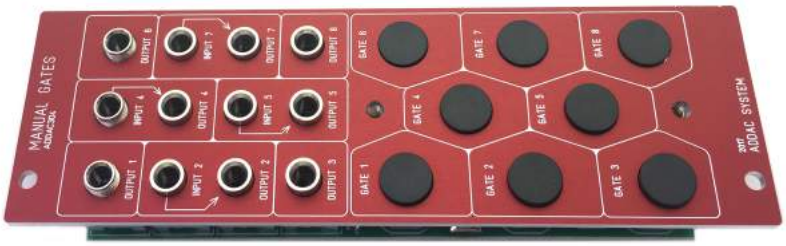


STEP 15:
Next place all the remaining push buttons, keep paying attention to the button's orientation.



STEP 16:
Next let's place the front panel, use a tweezer to help getting all the jacks in their holes.





STEP 17:
Tighten the jack nuts and the 2 screws.

STEP 18:
Next we'll solder the jacks.

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.

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.

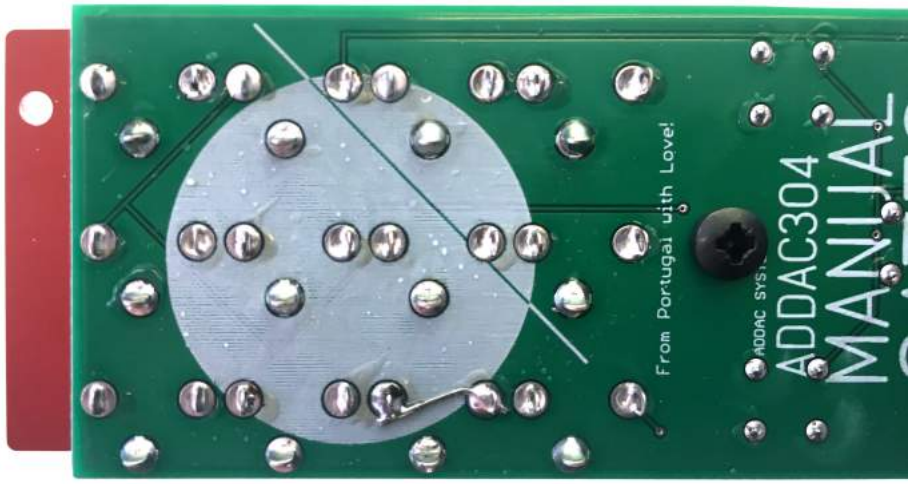
STEP 19:
Start by soldering only one pad of each jack first.

STEP 20:
Then solder a second pad of each jack.

STEP 21:
Finally solder the remaining pads of all jacks.

STEP 22:
Next lay the module facing down on a flat surface (this will allow the push buttons to be alligned) and solder their pads.

STEP 23:
Finally solder a small wire between the 2 jack pads like shown below.



Congratulations, you're done!

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

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