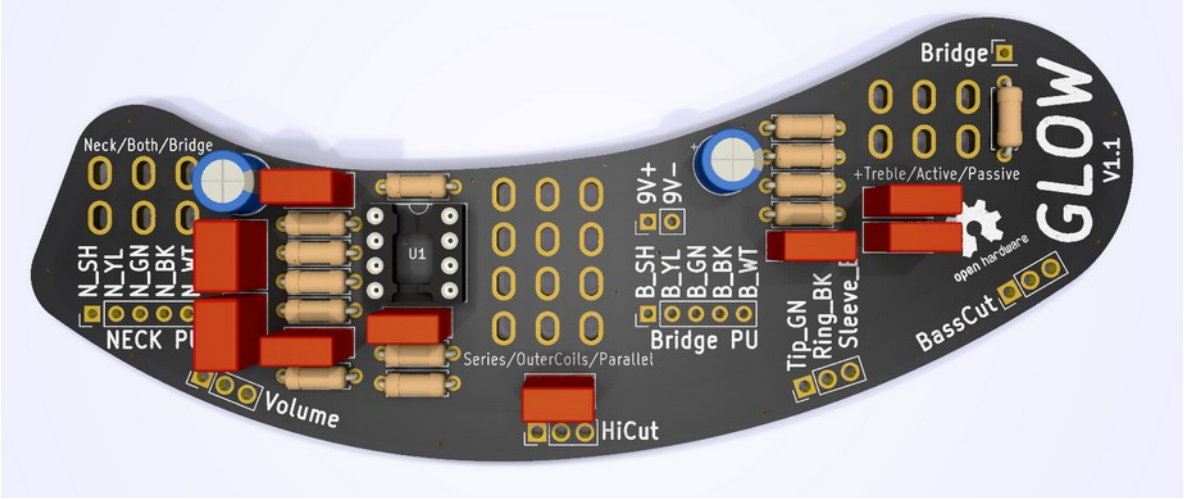


Connection overview

PCB	connect to	color
N_SH	Neck cavity shield	black
N_YL	Neck pickup upper coil start	yellow
N_GN	Neck pickup upper coil finish	green
N_BK	Neck pickup lower coil finish	black
N_WT	Neck pickup lower coil start	white
B_SH	Bridge cavity shield	black
B_YL	Bridge pickup upper coil start	yellow
B_GN	Bridge pickup upper coil finish	green
B_BK	Bridge pickup lower coil finish	black
B_WT	Bridge pickup lower coil start	white
Tip_GN	Audio jack tip	green
Ring_BK	Audio jack ring	black
Sleeve_BK	Audio jack sleeve	black
9V+	Battery positive	red
9V-	Battery negative	black
Bridge	Bridge ground	black
Volume 1	Pot A250K / A500K pin 1	orange
Volume 2	Pot A250K / A500K pin 2	red
Volume 3	Pot A250K / A500K pin 3 + housing	brown
HiCut 1	Pot A250K / A500K housing	orange
HiCut 2	Pot A250K / A500K pin 2	red
HiCut 3	Pot A250K / A500K pin 3	brown
BassCut 1	Pot C500K / B500K pin 1	orange
BassCut 2	Pot C500K / B500K pin 2	red
BassCut 3	Pot C500K / B500K housing	brown

PCB fit test

Illustration 1: remove knobs on all three pots. Unscrew the nuts of the three toggle switches and push toggle switches into the electronics compartment.

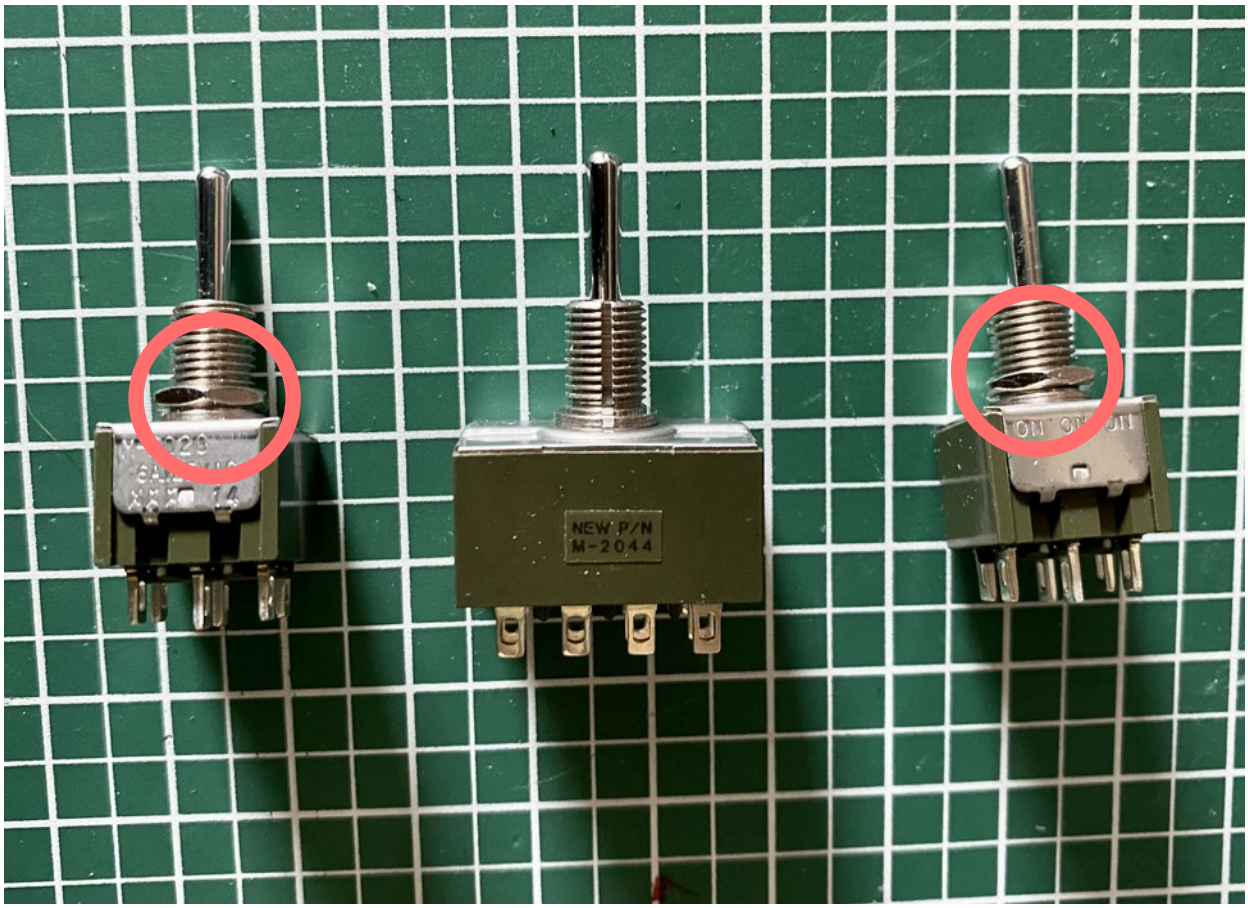


Illustration 2: screw one nut on each of the smaller 2PDT switches

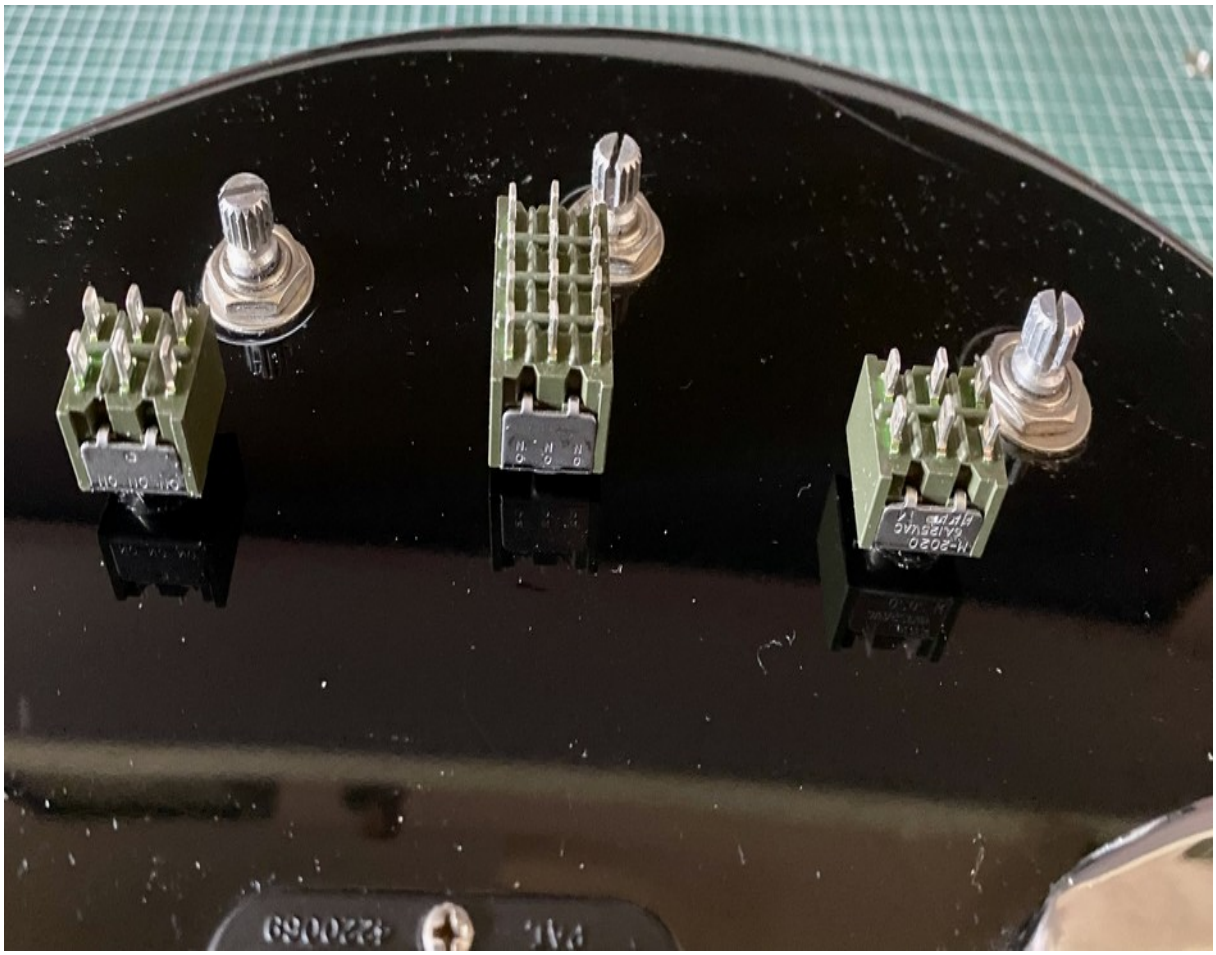


Illustration 3: stick toggle switches into the holes on the front

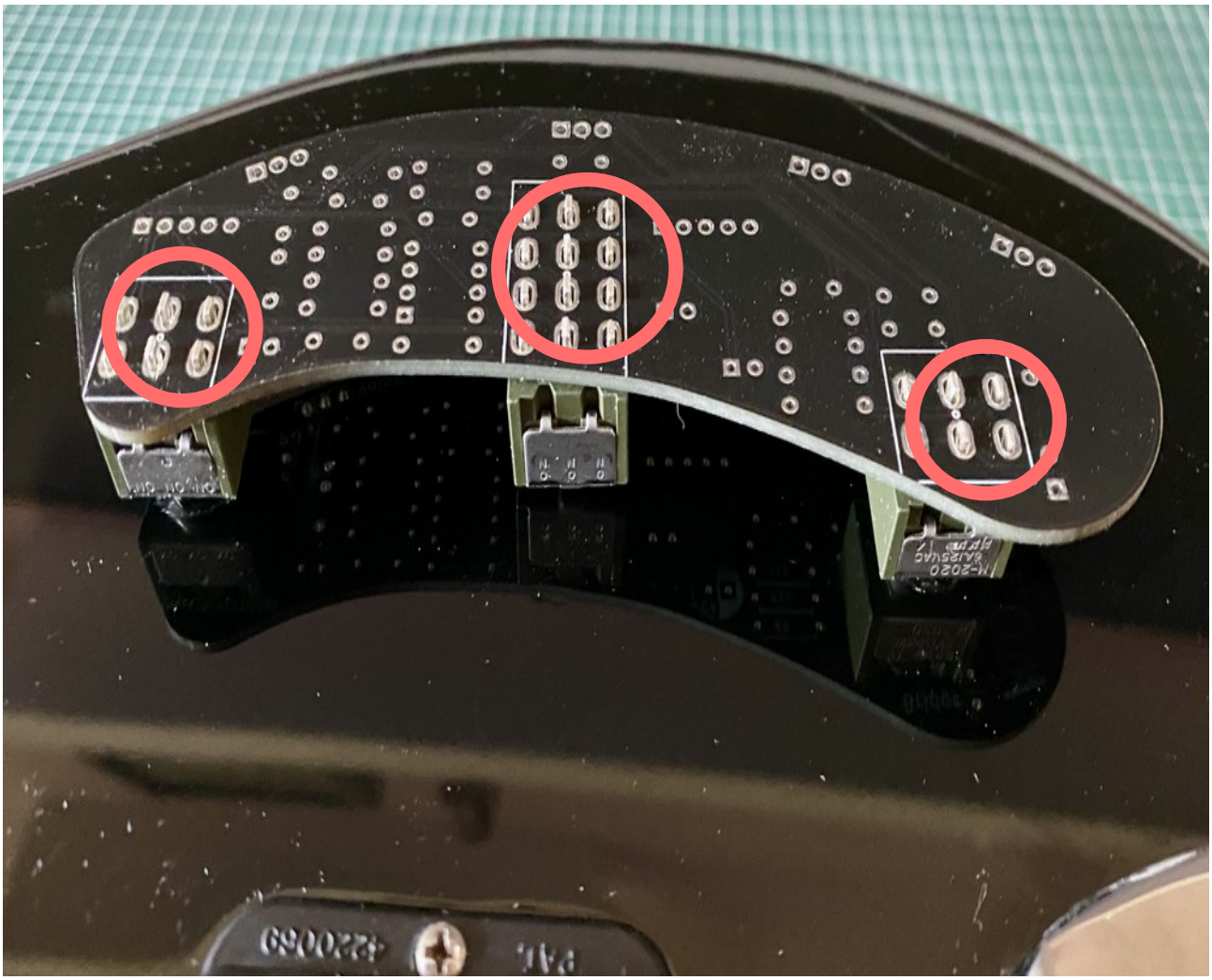


Illustration 4: arrange PCB on toggle switch pin, make sure the toggle switch pins align with corresponding PCB cutouts.

If it looks like picture above, GLOW will most likely fit your bass.

I do not give any guarantee or take any responsibility for any changes or damage you do to your instrument. Please keep in mind that this is not a simple procedure or easy reversible modification.

GLOW is provided as is. There is no warranty.
You proceed on your own risk.

Assembly

switches

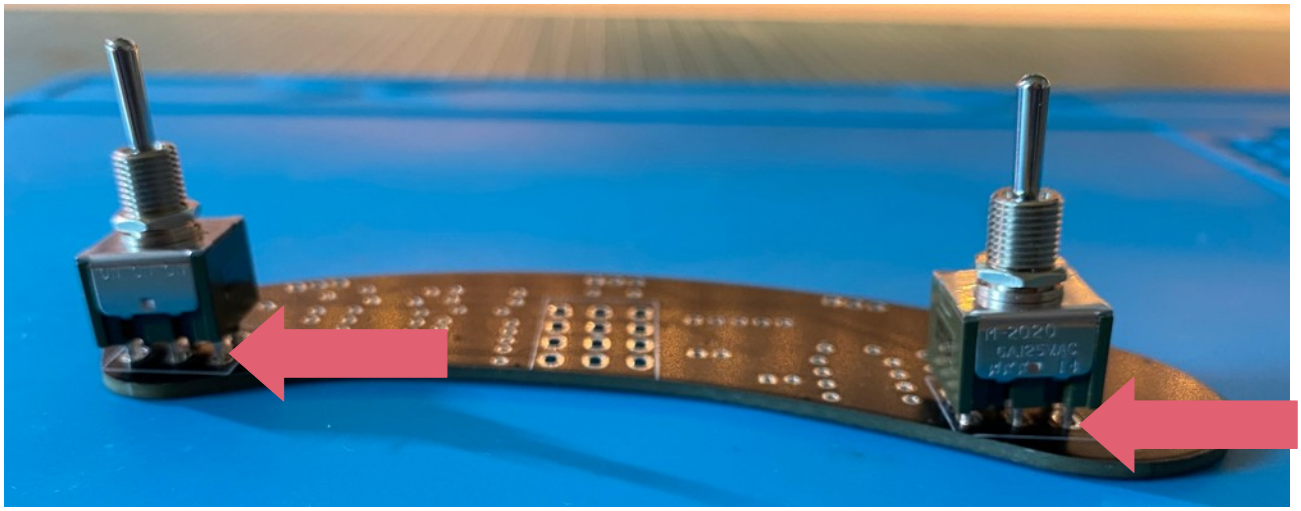


*Illustration 5: Lay PCB on a flat surface, with "GLOW" logo and silkscreen prints to the bottom. Stick 2 x 2PDT toggle switches into cutouts on PCB. Solder a single connection to one of the pins on each toggle switch from the top with the **PCB still flat on the surface**. There should be a distance of about 2-3mm between switch bottom and PCB. After soldering, carefully bend the switch to a upright position, if needed.*

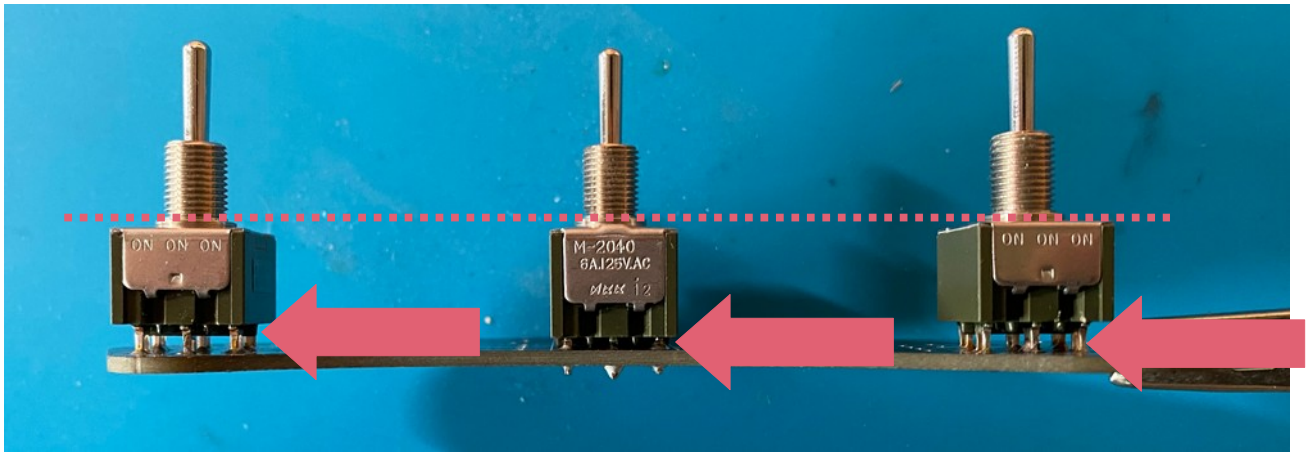


Illustration 6: solder middle switch flush to the PCB, withput any additional distance. Make sure the switches point up straight. Ideally the top surfaces of the switches align

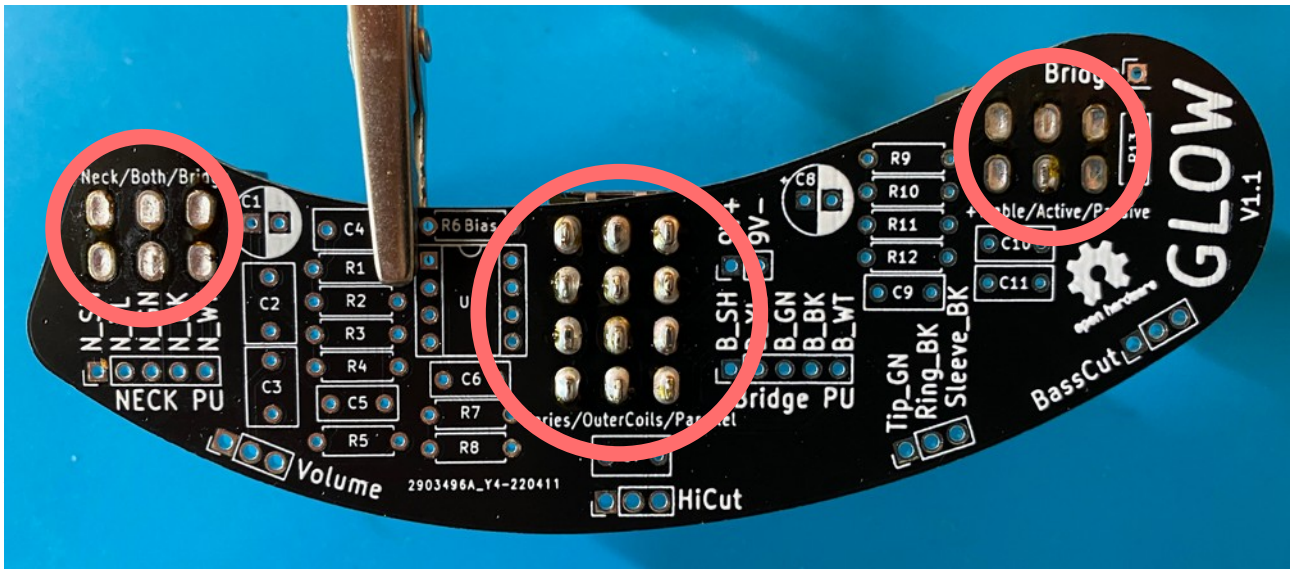
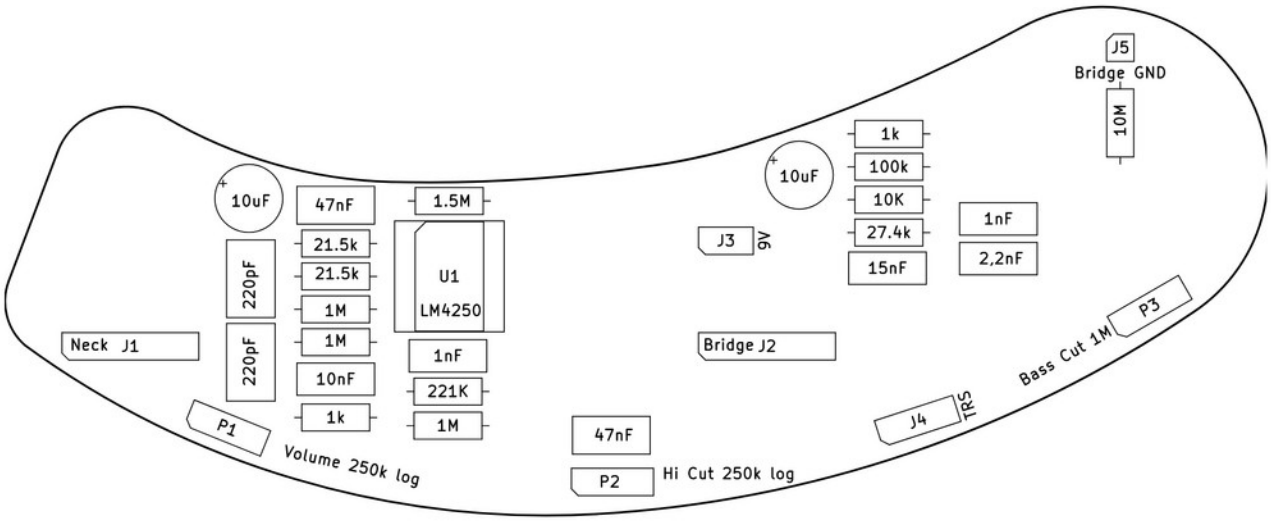


Illustration 7: Solder remaining connections from the other side of the PCB.

Components



Solder smallest components first. Start with Resistors R1 to R13. Afterwards socket U1, solder capacitors C1 to C11 last.

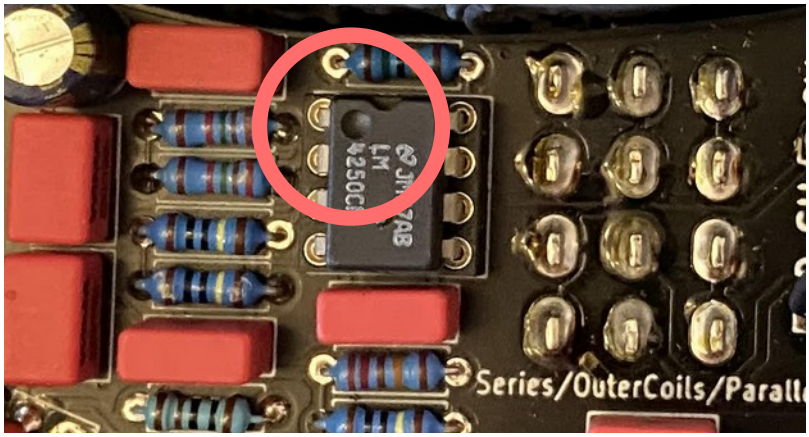


Illustration 8: gently push op amp into socket U1, with indent pointing upwards

V1.1 Fix

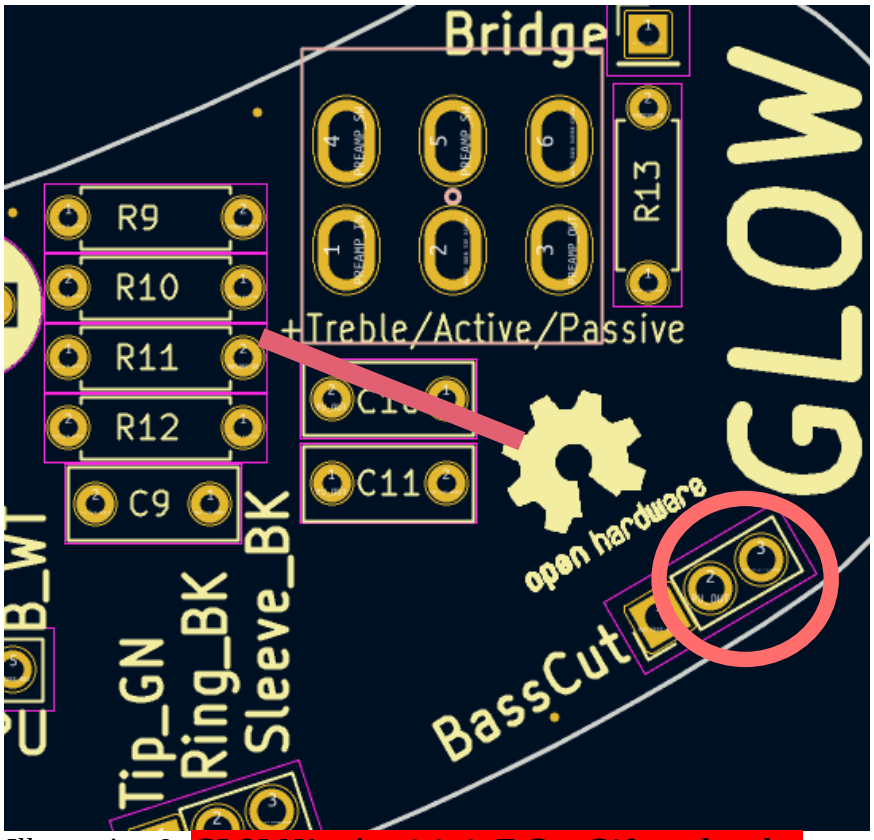
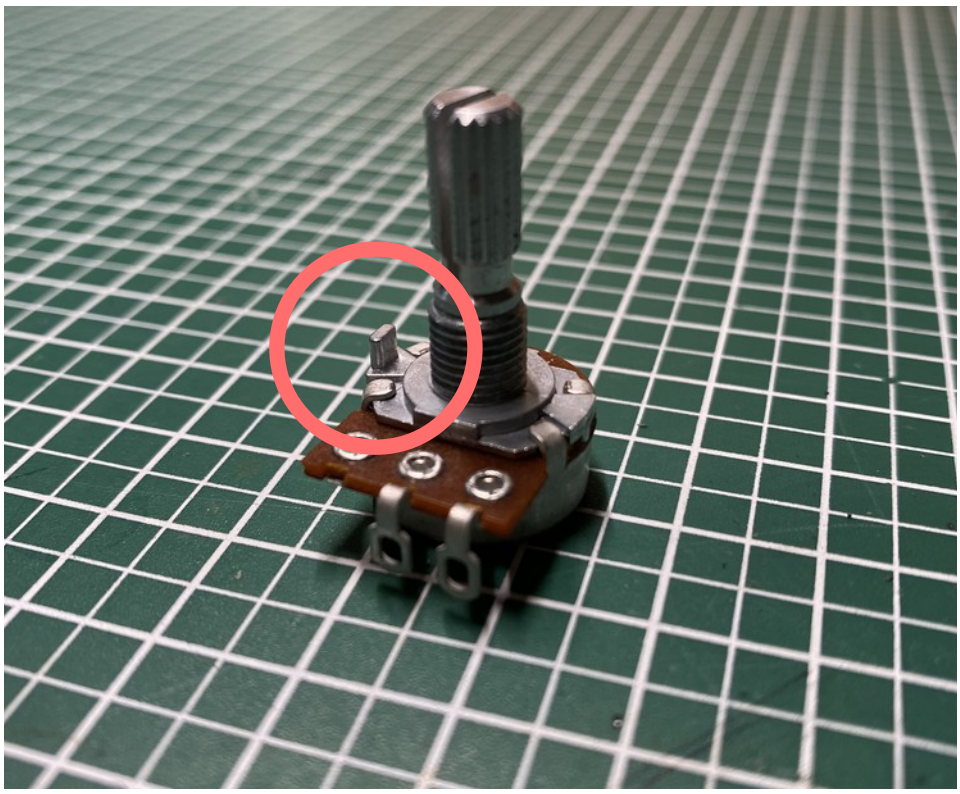


Illustration 9: ***GLOW Version 1.1, 1nF Cap C10 needs to be soldered to BassCut Pin 2 and 3***

Illustration 10: solder C10 to alternate position BassCut 2,3. Connect wires afterwards.

Pots



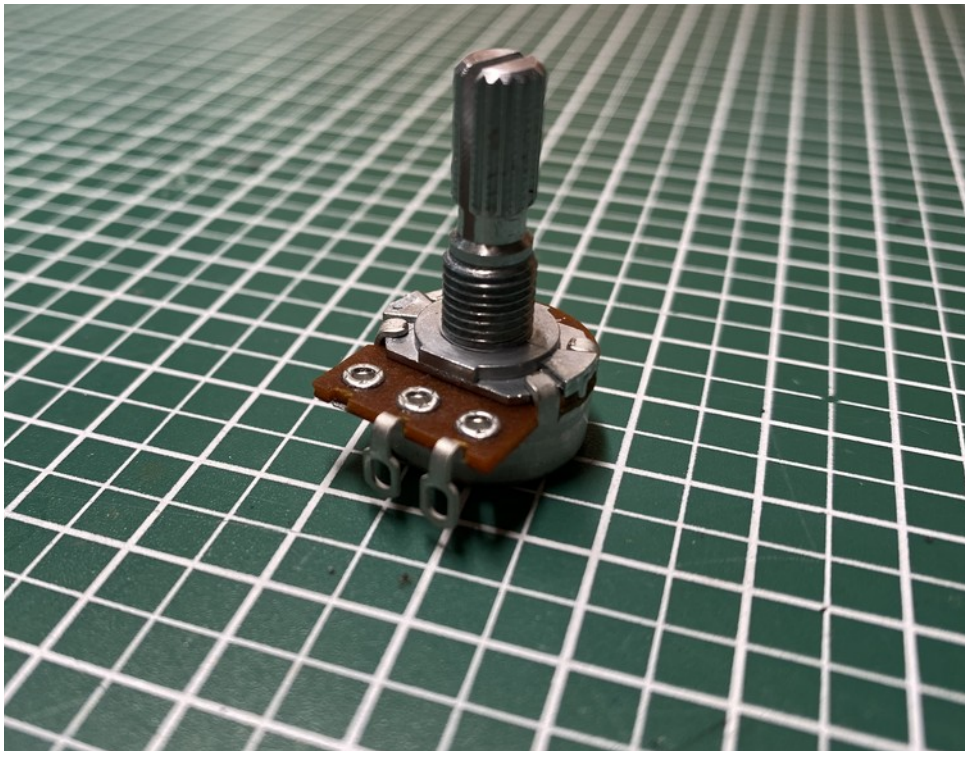
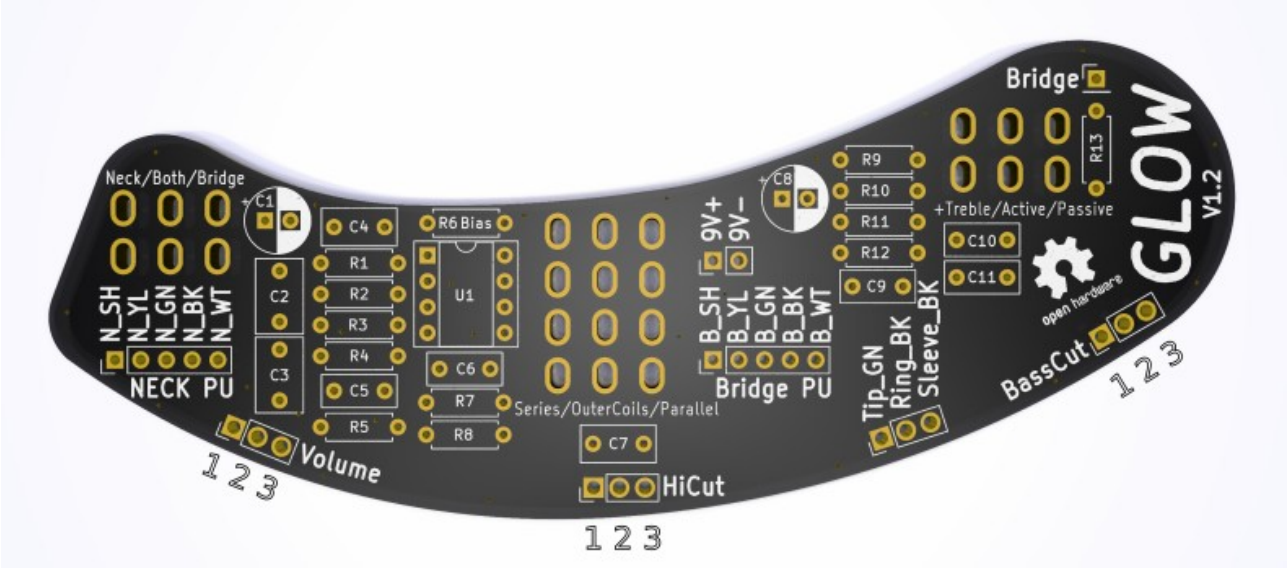


Illustration 11: use pliers to break of orientation pin



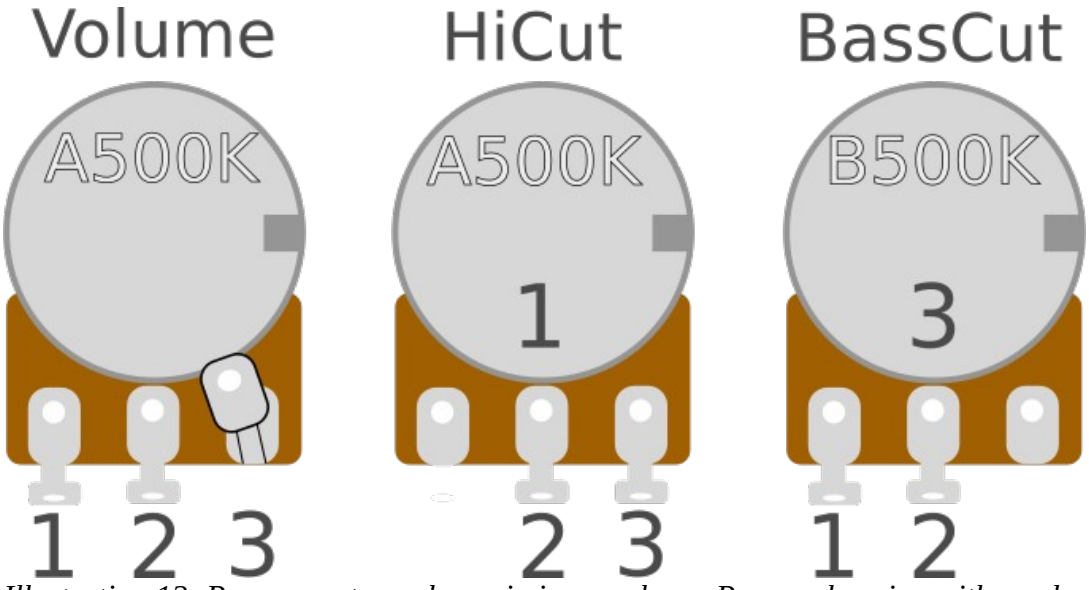


Illustration 12: Prepare pots as shown in image above. Prepare housing with sand paper to allow solder so bond to surface.

Illustration 13: solder wires to pots. Twist wire as shown.

Note: Recommended Bourns PDB181-GTR pots with 3/8 NEF (9.525mm) diameter thread might not fit the holes of the previous pots. In this case, carefully drill holes to 10mm. Use painters tape on the outside to prevent scratches and chipping of the paint.

Preparation

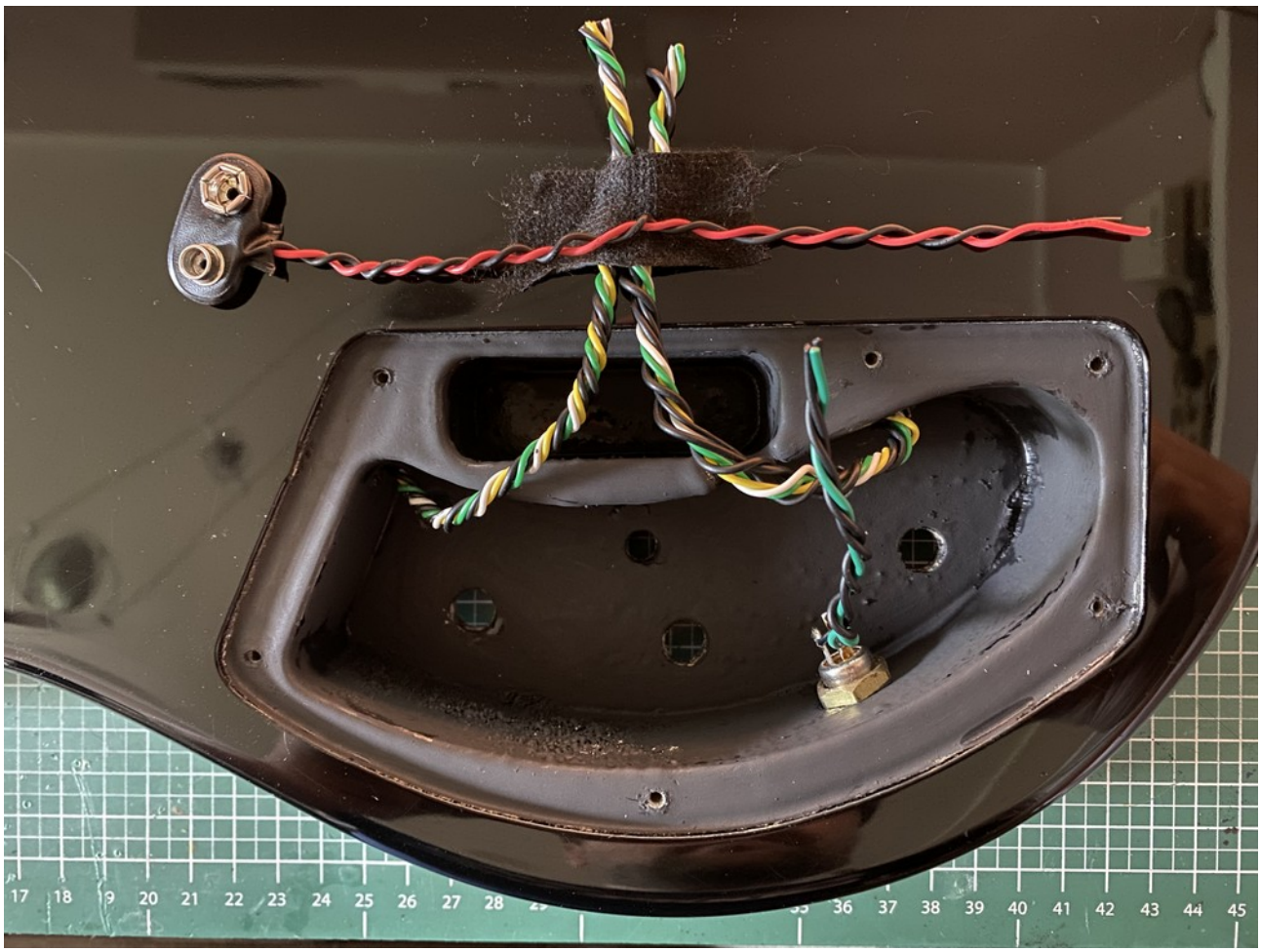


Illustration 14: remove toggle switches and pots from housing. Cut wires at appropriate lengths. Desolder black battery connector wire from audio jack, solder a black wire to (now unconnected) terminal on audio jack

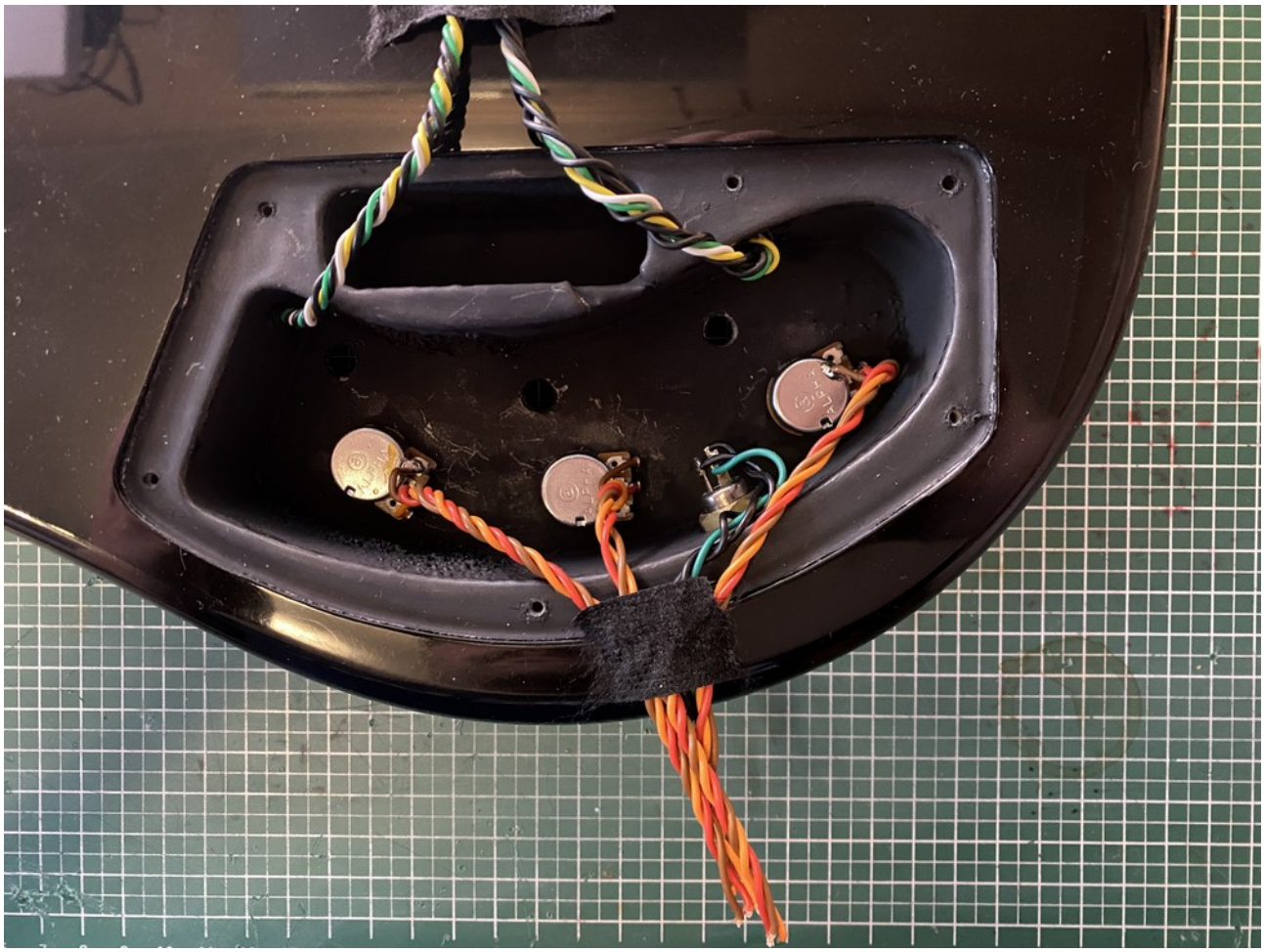


Illustration 15: Mount Volume, HiCut and BassCut pot to body. Fix nut tightly.

Final assembly

Illustration 16: Firmly push GLOW toggle switches into holes. Put nuts on switch threads. Screw nuts tight. It is okay to bend the PCB to a certain degree. Solder pot wires in order 1, 2, 3 starting from left. Solder all other wires to corresponding terminals on GLOW PCB.

Enjoy!