BLUFFER♠

Kit mounting instructions.

Zorg Effects

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1 What's in the kit?

This is all you must find in your bluffer kit:

Designation	Qty	Assignation
Capacitance 10µF	1	C5
Capacitance 470nF	1	C1
Capacitance 33µF	2	C2,C3
Capacitance 100nF	1	C4
Resistance 1M	1	R4
Resistance 10k	3	R1,R2,R5
Resistance 22ohms	1	R6
Resistance 470k	1	R3
Diode 1N4001	1	D1
TL071	1	U1
Socket 8 pins	1	U1
Jacks	2	
DC jack	1	
Enclosure 125A drilled	1	
PCB	1	
Brace	1	
Input Pins	4	
Wire and thermo wire	…	

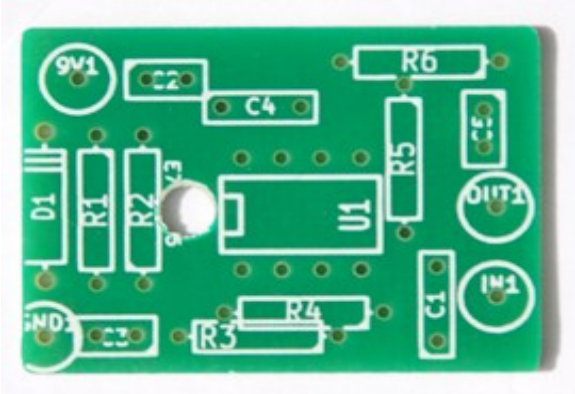
2 What you'll need.

The following tools are needed to build your Bluffer pedal:

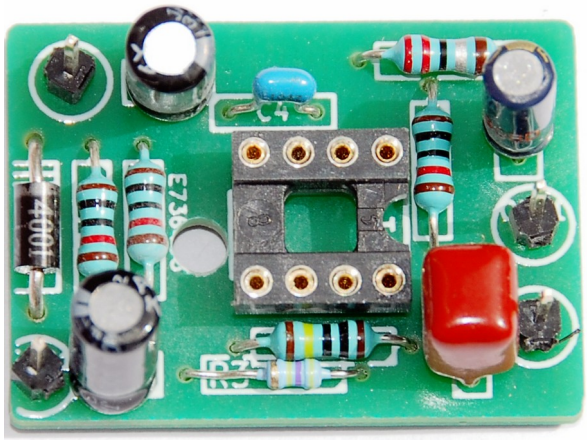
- A soldering iron.
- A un-soldering pump.
- A voltmeter/ohmmeter.
- Pliers to cut wire and remove the wire sheath.
- Pliers to screw nuts.
- A cruciform screw driver.
- And eventually wrenches.

3 Soldering on the pcb.

At the beginning the PCB looks like this, the components are numbered as in the table at paragraph 1:

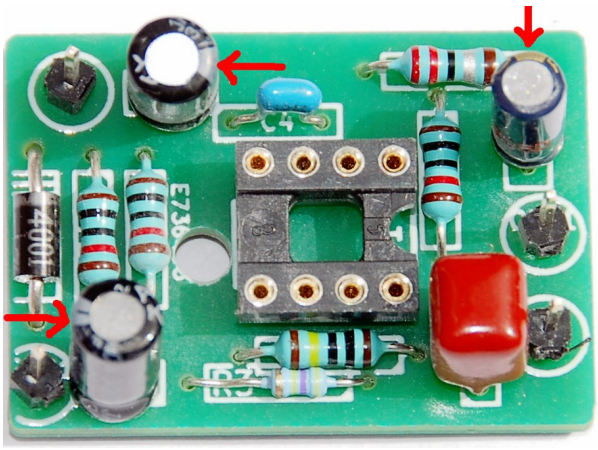


At the end it shall look like that:



Solder the components on the PCBs, beginning by the smaller:

- First all resistances, then the diode (beware of the diode position). **IMPORTANT:** Keep the legs of the diode after cutting them, you'll need it at the end.
- The socket and the C4 capacitance.
- The 4 inputs pins and C1.
- The 3 remaining caps. BEWARE: this caps have a direction. Note the position of the stripes on the capacitance and place them on your PCB exactly in the same position. (Or it won't work…)



4 Routing in the box.

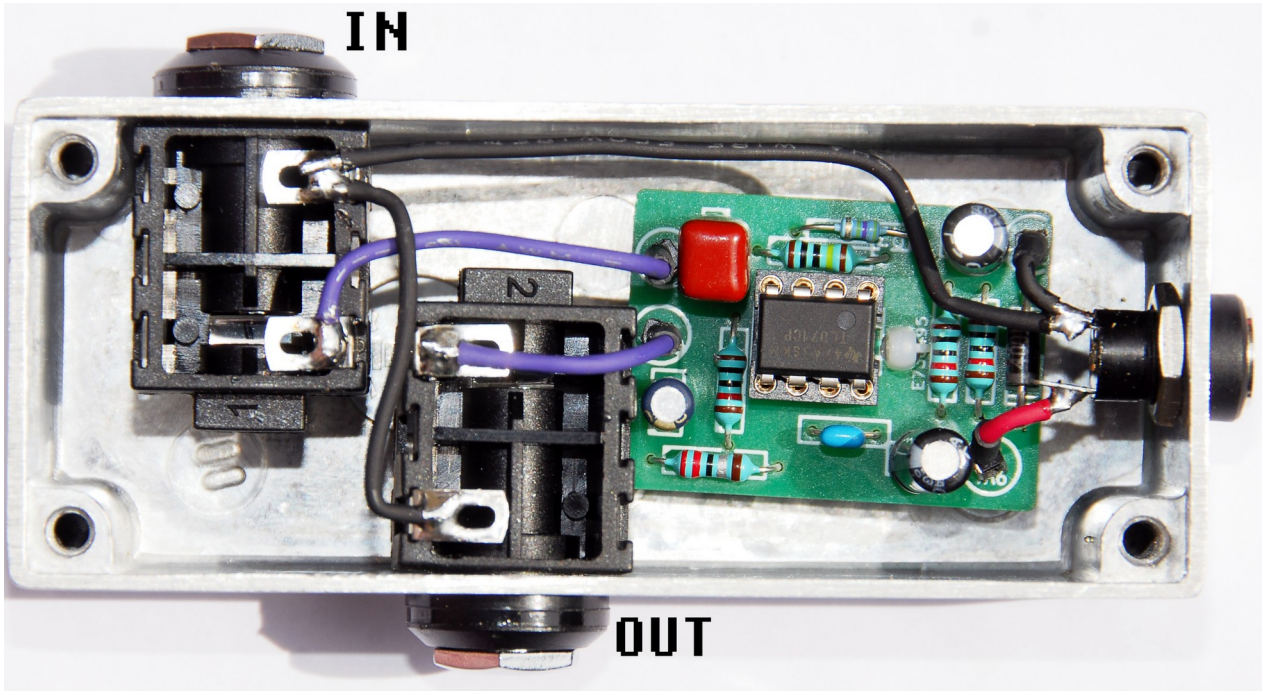
Screw the two audio jacks in the box.

Clip the pcb on that little white plastic holder. Remove the yellow sheet and stick the pcb in the remaining space, more on the audio jack side.

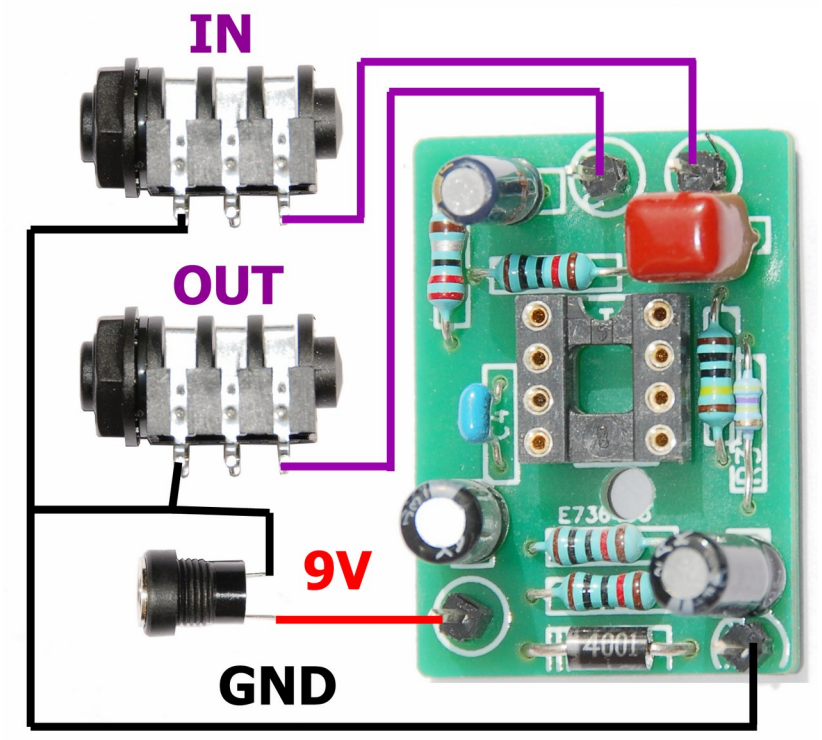
Screw the DC jack.

Now you'll have to solder the PCB and jacks altogether.

Here's how it should look at the end. Black wire is the ground, red is +9v, purple is the audio signal:



Here's the wiring diagram:



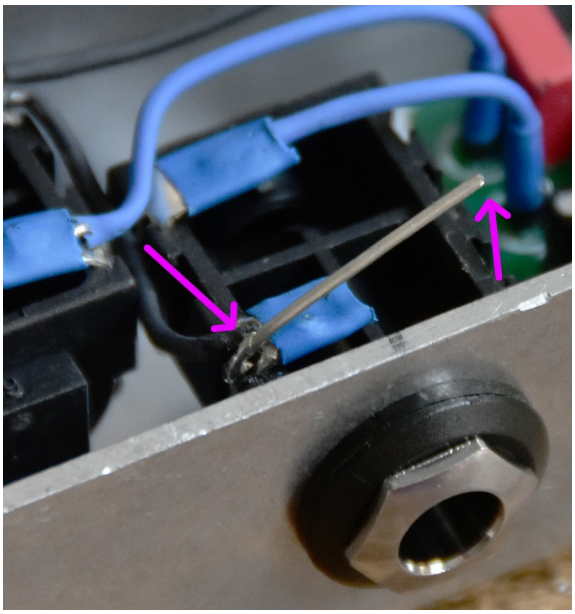
Important: for a center negative alim (standard boss), red wire (or positive +9v) must be soldered to the longest pin of ce DC jack.

Begin by soldering the wires to the pins on the board. Use the thermo wire to strengthen everything (optional). Then cut your wires the shorter you can and solder them to the jacks.

Don't forget to wire one audio jack ground to the dc jack ground.

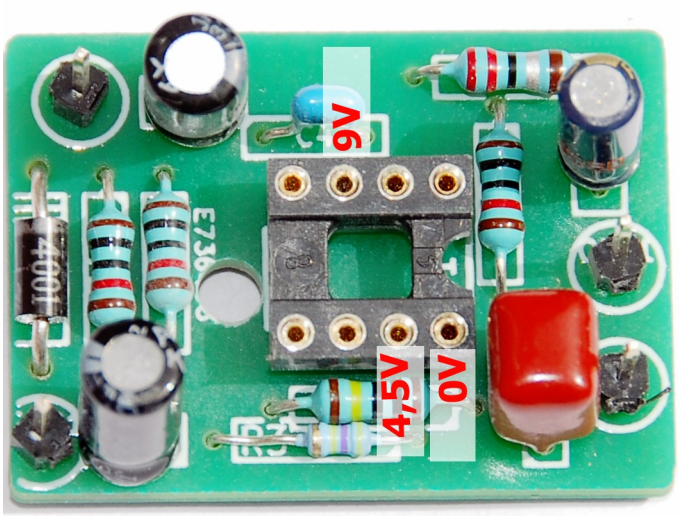
5 Grounding the enclosure.

Remember you kept the diode legs? It'll be useful now to ground the enclosure. Solder one leg vertically on the GND leg of the output jack (see picture below), then bind it but not totally, so that when you'll close the enclosure the back plate will push it down a little further, thus making a connection between the ground and the enclosure. Each time you open and close the enclosure, make sure to pull out a bit the leg so that it connects back with the back plate when closing the enclosure:

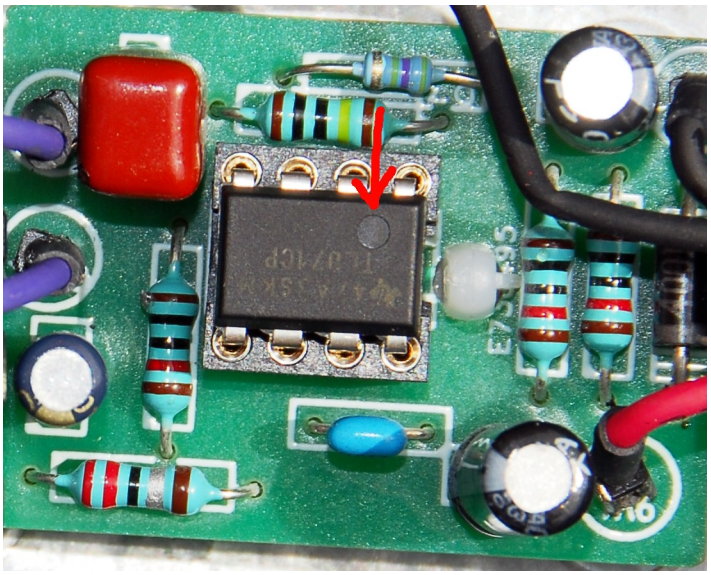


6 Testing.

Before pluging in the TL071 on his socket, you'll have to check the voltages. Use a voltmeter to check the voltage. By placing your ground (black) probe on the input or output jack ground you should measure:



If these voltages are correct you can now plug in your TL071 in the direction shown here:



Screw back the back of the enclosure and your buffer is ready to use!