PuzzleSounds

TB OCTAVE



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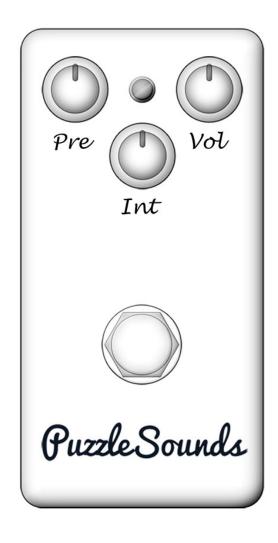
We hope you enjoy your new Tycobrahe Octavia! In this manual, you will find documentation and guidelines helpful to put it together.

Here we have put together a few links that detail some of the aspects explained in this manual and that we think you can find helpful:

Kit & PuzzleKit general manual

Reading resistor and capacitor values

Also, in our blog you can find multiple articles regarding tips for soldering, more in-depth posts about resistors and capacitors... Check it out!





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Bill Of Materials

Resistors (12)

1	R1	
1	R2	
1	R3	
1	R4	
1	R5	
1	R6	
1	R7	
1	R8	
1	R9	
1	R10	
1	R11	
1	R12	

Capacitors (9)

2	C1, C9	
1	C2	
2	C3, C8	
1	C4	
1	C5	
1	C6	
1	C7	

100n 150p (cer.) 33u (electro.) 100u (electro.) 1n 22u (electro.) 220u (electro.)

Transistors (3)

1	Q1
2	Q2, Q3

2N5087	
2N5088	

Diodes (2)

2	D1, D2

1N914/1N4148

50kB (lin.) 500kA (log.)

Potentiometers (3)

1	PRE	
1	VOL	
1	INT	

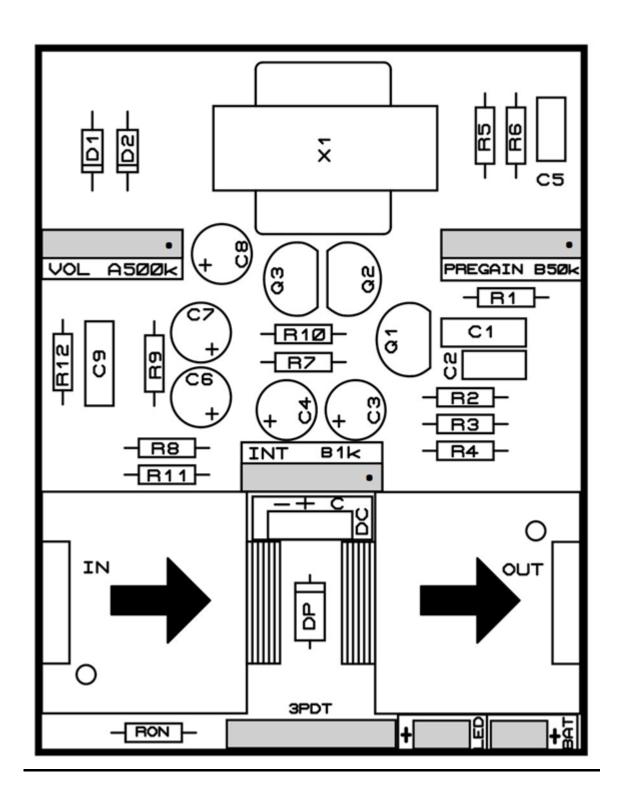
1kB (lin.)

		` '	
<u> Other (2)</u>			
1	X1	TM011 Au	dio Transformer
1	DP	1N4007	Constant Constant
1	RON	1k	—[IIII]—



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Part Placement - Ubicación de componentes



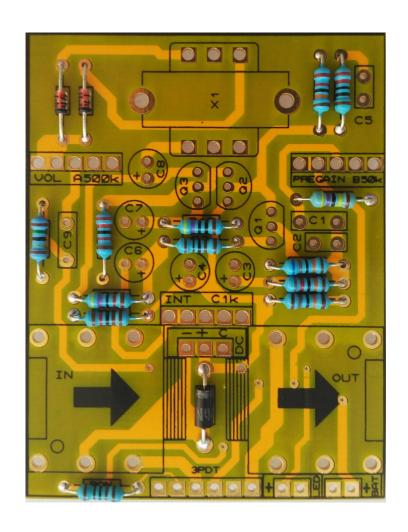
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STEP 1 – Resistors and diodes

DP

RON



Place the resistors and diodes. If you have troubles reading the values, check out our "Reading Part Values" tutorial.

Resistors (<u>12)</u>		
1	R1	4.7M	
1	R2	680k	
1	R3	820k	
1	R4	180k	
1	R5	220k	
1	R6	220	
1	R7	1k	
1	R8	47k	
1	R9	22k	
1	R10	470	
1	R11	1.2k	
1	R12	1.5M	
<u> Other (2)</u>			

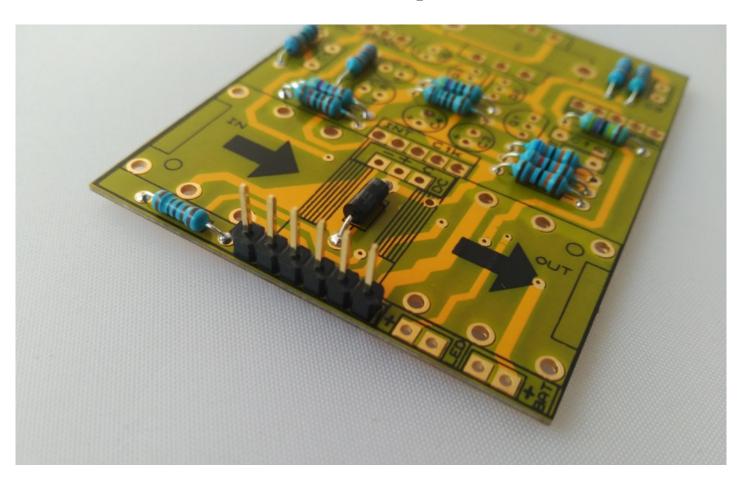
1N4007

1k

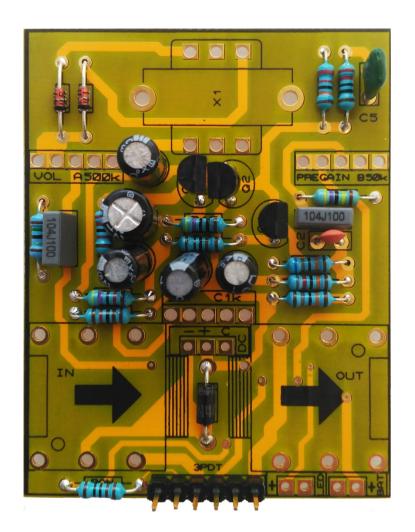


STEP 2 - <u>IC sockets & Pin header</u>

Then, connect the 6 pin header:



STEP 3 – <u>Capacitors and Transistors</u>



Solder the capacitors and transistors. If you have troubles reading the values, check out our <u>"Reading Part Values"</u> tutorial. Pay attention to the orientation, as well as to the polarity for electrolytic capacitors.

Capacitor List (9)

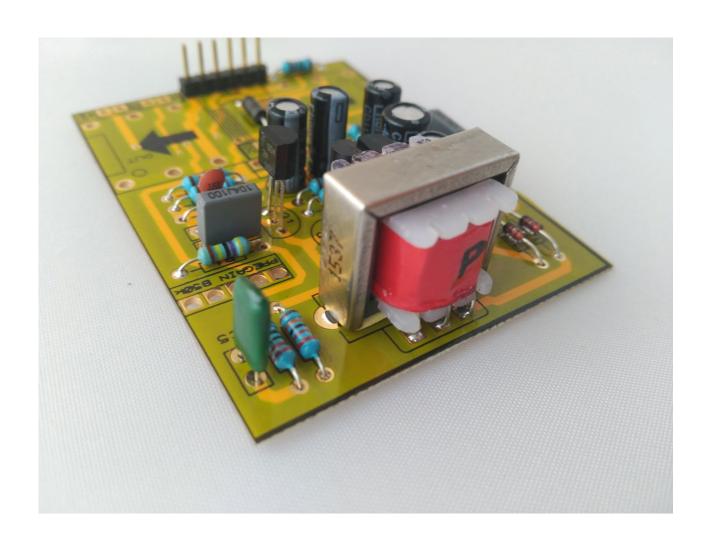
2	C1, C9	100n
1	C2	150p (cer.)
2	C3, C8	33u (electro.)
1	C4	100u (electro.)
1	C5	1n
1	C6	22u (electro.)
1	C7	220u (electro.)

Transistor List

1	Q1	2N5087
2	Q2, Q3	2N5088

STEP 4 - <u>Transformer</u>

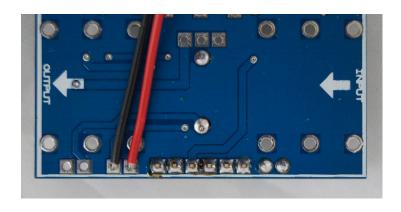
Solder the transformer, paying attention to the orientation:

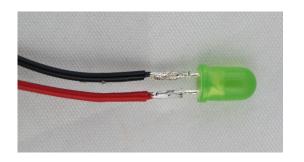


STEP 5 – LED and Battery Clip

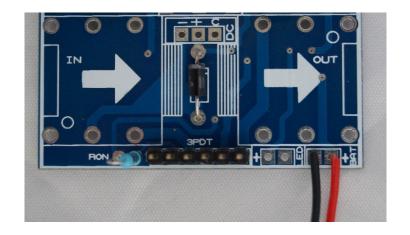
Solder two wires to the LED connection (red to the "+" sign).

Then, solder then to the LED (the red wire is connected to the longer pin).



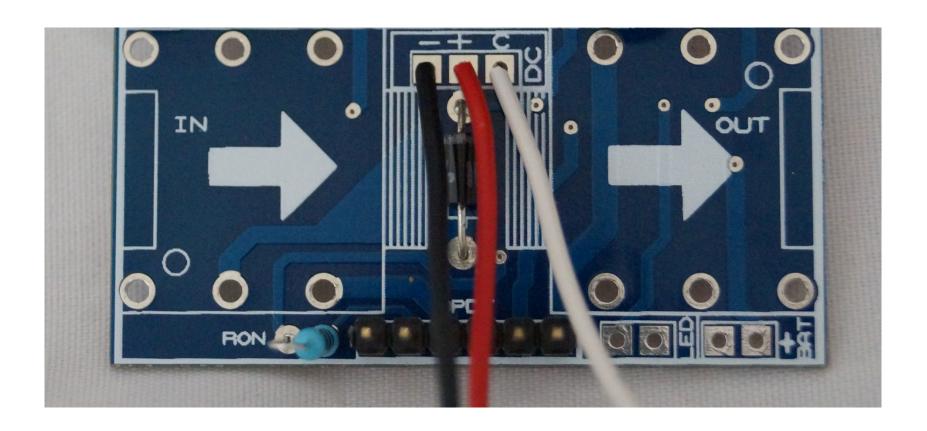


Solder the battery clip, connecting the red wire to the "+" sign:



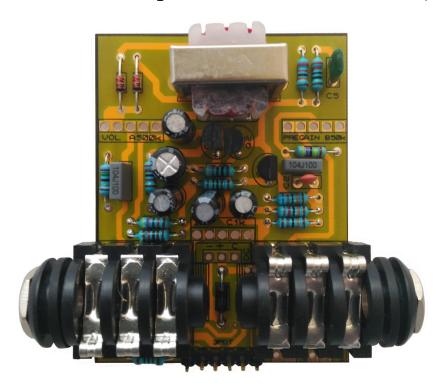
STEP 6 - DC Power Jack wires

Solder three wires (about 5cm each) to the DC connection as shown (don't solder anything to the other end yet!):



STEP 7 - Audio Jacks

Now, solder the audio jacks to the board (DC, battery and led wires are not present to make it clearer):



STEP 8 - Potentiometers

A – Preparing the potentiometers

Cut 3 pieces of wire for each potentiometer you have to solder (i.e. 9 pieces for 3 potentiometers). Then, solder them to each lug. The first lug is the one in the left in top view (the black wire in the picture).

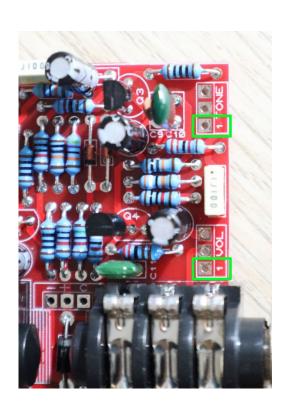
Here, we've cut them short (~1cm), but you can use the length you need.

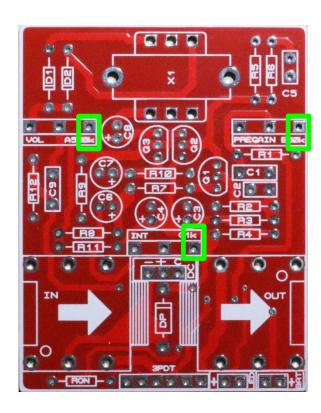


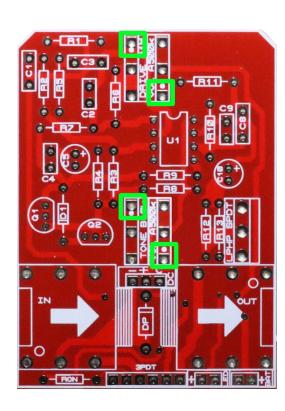


The pin 1 is shown in the PCB, either as a dot or as a "1" number (left picture). If your board doesn't specify a "1" or a dot, then the default 1 pins are being used. Below you can find the default pin 1 for our PCBs.

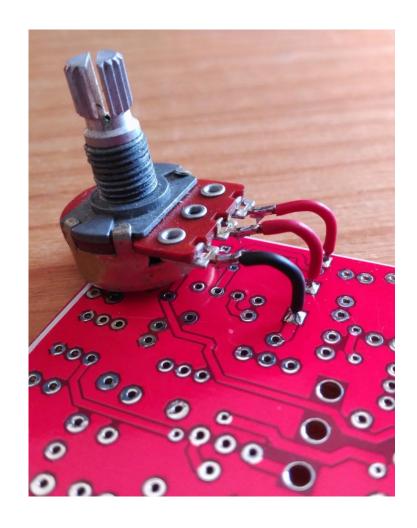
You can solder the potentiometers from above or from below (which we prefer) depending on how you plan to build the pedal.







Then, solder them to the board like in the picture in the left, and then place the board inside the enclosure:



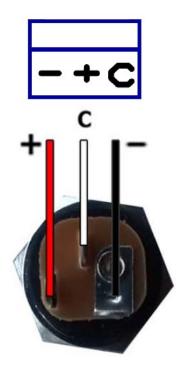


STEP 9 - DC Power Jack

First of all, insert the DC jack in the enclosure and tighten the nut:



Then, solder the three wires from the DC connector in the board to the DC jack as follows:





STEP 10 - 3PDT

A - Solder the pin to the adapter

Pay attention, the pins and the 3PDT must be soldered to the same side of the PCB adapter (the one labeled "buttons and 3PDT on this side").



B - Solder the 3PDT

Now solder the 3PDT to the PCB and remove all the nuts but one, that should be set at a middle height:



STEP 11 - Connect the 3PDT



STEP 12 - Your pedal is finished!

By now you should have a fully functional effect pedal, we hope you enjoy it!