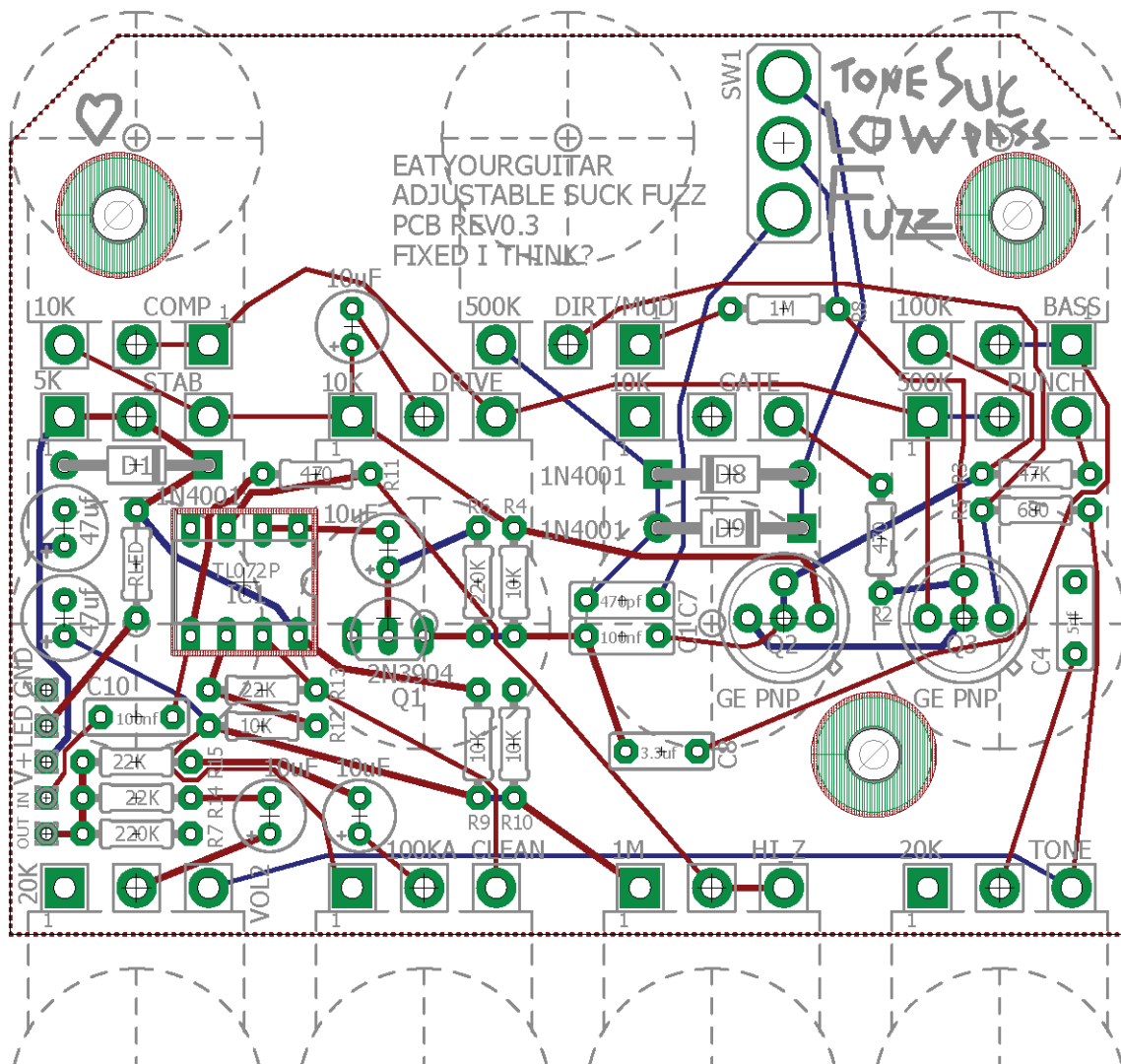


PCB NAME fuzz factory 11v0.3 also known as EATYOURGUITAR Adjustable Suck Fuzz. This project was my idea but it would not be possible without a lot of people doing guitar circuit design before me. I would like to thank Dallas Arbiter for the creation of the Fuzz Face. I would like to thank Zackery Vex for creating the Fuzz Factory. I big thanks goes to everyone at DIYSTOMPBOXES.COM forum and thanks to Aaron Nelson for hosting it.

This guide includes a bill of materials, schematic, and drill template for a Hammond 1590BB. The picture of the PCB is included to help you trace it either in a troubleshooting or modding situation. You have the option of using sockets for the germanium transistors. I tend to test them out first on the breadboard in a Fuzz Face and then permanently solder them into the next build. You can spend a lot of time experimenting but only if you want to. most of the work has been done for you in this kit.

The input impedance is adjustable but it will affect the clean sound as well as the input of the fuzz sound. Extremely low input impedance can cause a loss of brightness, a loading affect on the guitar pickups, a reduced volume, and an increased noise floor. These are the things that make a Fuzz Face great but they are also the things that make engineers cringe. There is a two channel mixer on the output labeled CLEAN and FUZZ with no master volume. The alternate ways to do the volume pot include 20KA, 25KB + 100K resistor from 1 to 3. The tone cap is 5nf but you can increase this value to get a darker output when the tone is set to dark. PCB REV0.3 has a minor flaw where the TONE knob gets darker when turned CW. swapping lug 1 and 3 on the TONE will make it work normal but is not required to have a working TONE control. COMP GATE and STAB will choke the signal to mute. Don't panic if it does not work. Turn the knobs. Do not make the leads of the germanium transistor shorter than 16mm as this may cause heat damage when soldering. You should have the iron hot enough to solder quickly before the germanium transistor gets cooked. People with lower power irons can solder sockets to avoid problems. Soldering the completed PCB to the pots and switch is the last thing you do.



fuzz factory 11v0.3

470pf 1 box polyester film capacitor
5nf 1 box polyester film capacitor
100nf 2 box polyester film capacitor
3.3uf 1 box polyester film capacitor
10uF 4 electrolytic capacitor
47uf 2 electrolytic capacitor
1N4001 3 DO-41 rectifier diode
*1MB 1 alpha RV16
*500KB 2 alpha RV16
100KA 1 alpha RV16
100KB 1 alpha RV16
*20KB 2 alpha RV16
*10KB 3 alpha RV16
5K 1 alpha RV16
TL072 1 DIP8 dual operational amplifier
2N3904 1 TO-92 silicon NPN transistor
GE PNP 2 germanium transistor low leakage Hfe 70 - 110
470 2 resistor
680 1 resistor
47K 1 resistor
10K 4 resistor
22K 3 resistor
220K 2 resistor
1M 1 resistor
SPDT 1 switch ON-OFF-ON

*UPDATE FEB 24 2017

do not install 1M resistor. leave it open.

500KB dirt/mud changed to 500KC.

tone knob changed to 10KB.

fuzz volume has been changed to 20KA but you can use
20KB or 25KA.

470pf has been changed to 22nf.

1MB changed to 1MA.

ADJUSTABLE SUCK FUZZ
 BY EATYOURGUITAR
 AND DIYSTOMPBOXES CREW
 REV0.3 FIXED

