

# Bazz Fuss: Build Document

Carcharias Effects

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## 1. About This Circuit

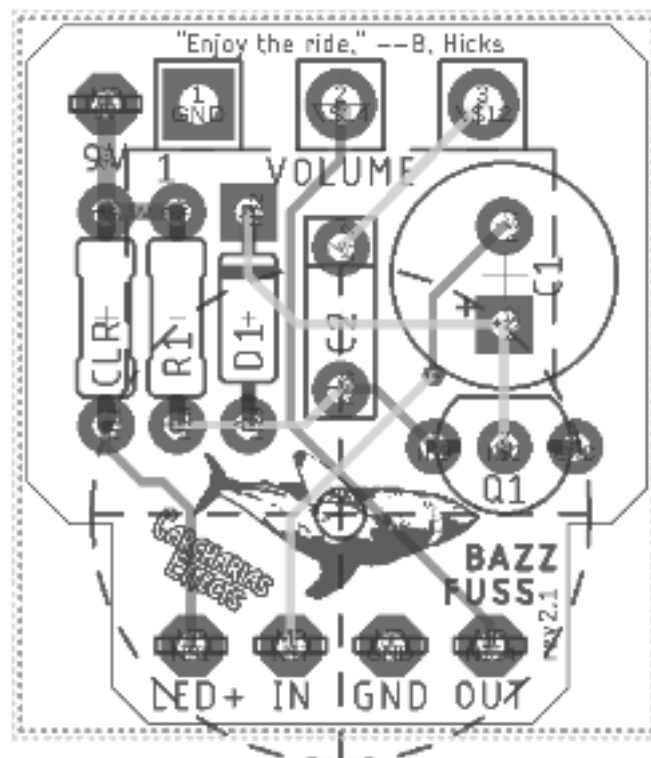
The Bazz Fuss is an ultra-simple originally designed by Christian Hemmo, and has been the basis of so many great, minimal fuzz circuits. It is pretty near perfect. With only six components, it is perfect for modding, easy to breadboard, stacks brilliantly, and cleans up very nicely with the onboard controls on your bass or guitar. What more could you possibly need than with a single control for volume? And the PCB footprint is so tiny that not only does it fit into basically any pedal enclosure, but it might even be able to fit inside the body cavity on your guitar, hiding beneath a volume or tone pot.

## 2. Controls

The standard Bazz Fuss (if such a thing can really be said) features a single control parameter—**Volume**—which amplifies the circuit.

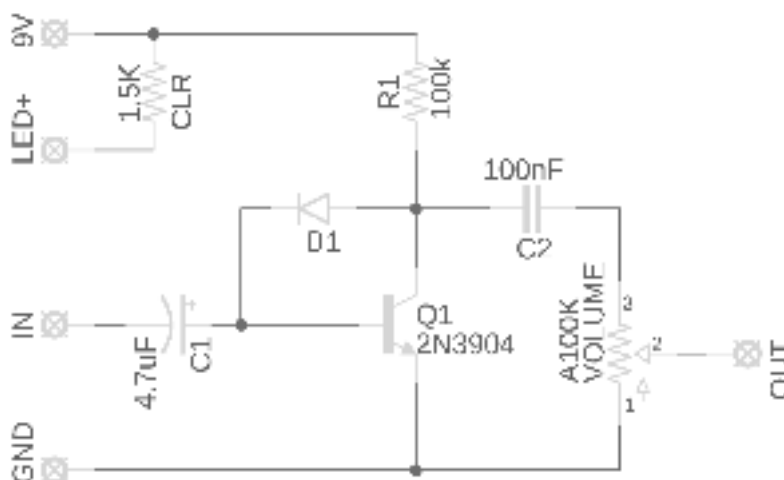
## 3. Circuit Board

The following is a screen capture of the printed circuit board (PCB):



## 4. Schematic

The following is a screen capture of this circuit's schematic, which can be used for reference when debugging:



## 5. Bill of Materials

You will need the following components to complete your build:

Qty	Value	Parts	Description
1	4.7uF	C1	Capacitor (electrolytic)
1	100nF	C2	Capacitor (film)
1	1N4148	D1	Diode
1	A100K	VOLUME	Potentiometer
1	2N3904	Q1	Transistor
1	100K	R1	Resistor
1	1.5K	CLR	Current Limiting Resistor (for LED)

## 6. Build Notes

The following are a collection of notes, comments, and tips about this circuit.

- This circuit has been modded so many times over that the part values listed above are merely *suggestions* at this point. You are thoroughly encouraged to experiment. Breadboard this circuit using the part values from the BOM as a jumping-off point, and try different values that cater to your own taste and playing style. Ultimately, you can populate the board with the parts that you liked the best. The transistor and diode, for example, are a great place to start—perhaps a germanium diode, or a 2N5088 would sound better to your ears. Go nuts.

# Terms of Use

The printed circuit board (PCB) discussed herein may be used for DIY purposes, such as personal builds or small commercial operations. This PCB may not be resold as part of a commercial kit. Resale from peer to peer is approved.

I do not claim any cloned circuit (whether partially or entirely) as the intellectual property of Carcharias Effects, nor am I in the business of intentionally violating any copyrights. Unless otherwise noted, many of the circuits available on [carchariaseffects.com](http://carchariaseffects.com) are based on schematics that represent the works of many hardworking people who came before me, who have designed many wondrous and unique electronics for musicians. I am just one guy with a hobby and love for these electronics, and designing and selling these PCB's is simply one way that I can ensure that my hobby continues to be self-sustaining.

## Change Log

- **Rev1 (August 19, 2019):** First draft of this document, includes all standard features. This document corresponds to **PCB rev1.0**.
- **Rev2 (October 12, 2019):** This document corresponds to **PCB rev2.1**. Updated PCB reflected in circuit board screen capture. Includes CLR for connecting LED to build.

## Contact

If you encounter any problems or issues with the PCB, or have any questions or comments, feel free to reach out to me anytime. I will try my best to be as responsive as possible. Here are the best ways to reach me:

- Instagram/Facebook (DM): **Carcharias.Effects**
- Email: [carcharias.effects@gmail.com](mailto:carcharias.effects@gmail.com)
- Web: [www.carchariaseffects.com/contact](http://www.carchariaseffects.com/contact)

I **love** seeing pictures of other peoples' builds, so feel free to tag me (**carcharias.effects**) on Instagram or Facebook.

Best of luck and happy building!