



## TOCT Instructions

*Version 2016April14*

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This is a replica of the octave stompbox we cannot mention by name referred to as **TOCT** in these documents. This Octave/Fuzz is extreme by most standards. Thanks to Fuzz Central for some of the information to make this a Negative-Ground circuit. The transistor selection can make some difference in the sound, but it is not critically important to getting a good sound.

We have added a **PreGain** feature on this project since we noticed that the Octave sound is hard to achieve without tuning down the input some. For full out insanity, leave the **PreGain** and **Intensity** controls on full. Turn down both **PreGain** and **Intensity** to get good Hendrix type Octave sounds. There is an option for a toggle switch to select between Fuzz and Octave, but we built this one without since we wanted a straight up Octave box. With **Intensity** and **PreGain** on full, the Octave is somewhat "lost in the storm", with sounds of very, very intense fuzz. You should be able to get lots of controlled feedback and swells on most amps even at moderate and low volume levels.

**Positioning of Q1.** There is a boutique version of this circuit that has the Q1 transistor reversed (emitter to collector reversed). The circuit works similar and has a slightly different sound when you install Q1 like this. The first version of our PCB had the transistor reversed on the screen print on the PCB and the older diagrams had it like this. We decided to change it back to the original way. Follow the diagrams for the original placement or for a modification, you can reverse Q1 and see if you like it.

This is a relatively simple effect to build. Use the project documents provided, starting with the General Build Instructions. Note that if you prefer, it can easily be



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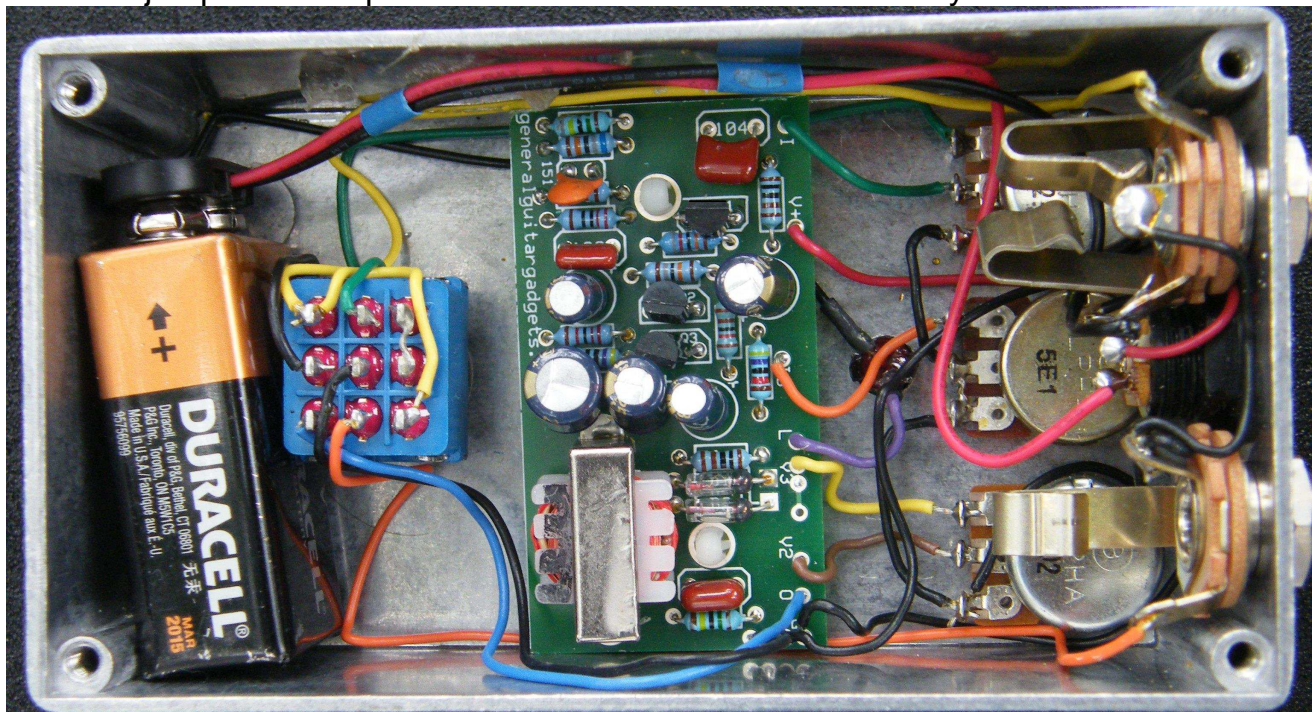
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built without the PreGain control, just bypass the control and hook the input from the bypass switch directly into the PCB input pad. Also, if you want to build to original specifications, it can be done on this PCB as well.

If you want to add the "fuzz" switch to cut the octave sound and have intense fuzz, use the extra pads above the diodes. One wire from one pad to one lug of a SPST toggle switch and the other wire from the other pad to the other lug on the toggle switch. Some of the PCBs may have a built in jumper there, just cut it with an exacto knife.

Here's an inside view of the unit we built to show some construction details. Note that the photo shows an older version of the PCB, where Q1 is reversed and there is a built in jumper on the pads above the diodes. Your PCB may not be the same.



This is a fun effect, works well with other effects. Have fun, comments and questions are welcome and can be sent to [info@generalguitargadgets.com](mailto:info@generalguitargadgets.com)



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Here is a chart of voltages taken at the transistor pins. This information can be used to help you find and fix problems if your TOCT doesn't work when you test it.

Component	Location	Voltage
9 volt supply		9.4
Q1	Collector	4.3
	Base	3.6
	Emitter	3.0
Q2	Collector	9.4
	Base	2.6
	Emitter	2.0
Q3	Collector	5.0
	Base	2.3
	Emitter	1.7