



## Ampeg Scrambler Replica (3 Knob) Instructions

*Version 2017November06*

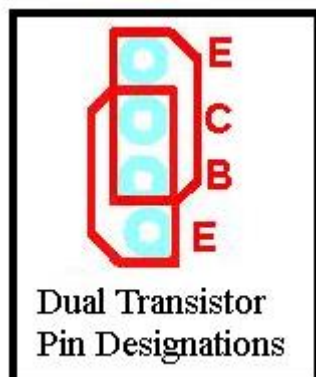
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This is the Ampeg Scrambler Replica kit. This is a Fuzz/Octave unit. The Octave up sound is not as pronounced as some of the other Octave up stompboxes, but this one has a unique one-of-a-kind sound that you don't want to miss out on. This version has a transparent discrete boost stage so that a very useful Volume Control could be added. The boost stage does not alter the original tone of this effect.

Use the project documents provided, starting with the General Build Instructions. Note that the PCB allows for different pinouts for transistors Q1, Q3 and Q4. We use the original number Darlington 2N5306 transistors in our kits. Other Darlington's will work, but may have a EBC pinout. Follow the part placement/wiring diagram for correct placement of the 2N5306 transistors and be careful to insert those transistors in the correct 3 (of 4) holes.





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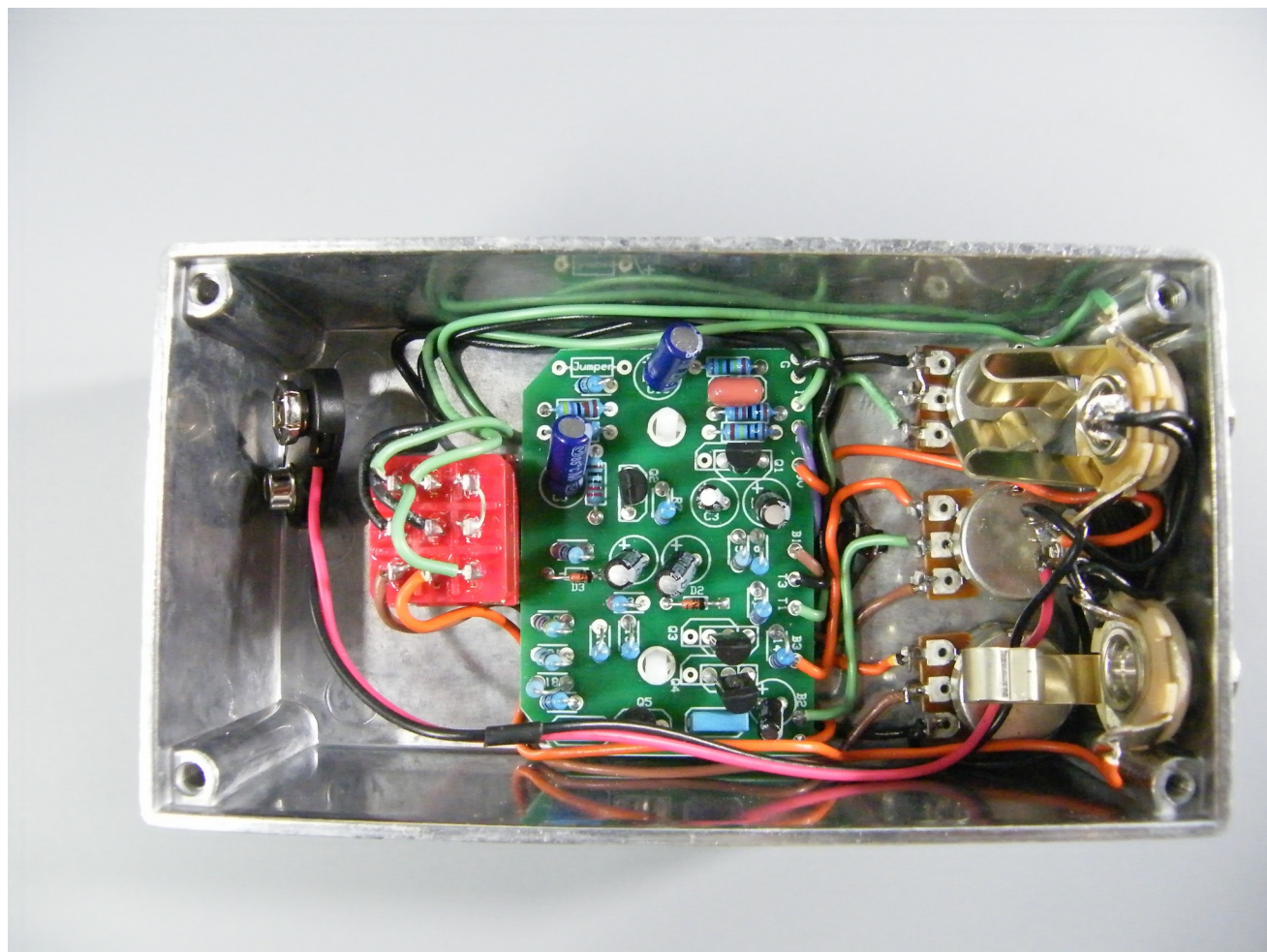
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Note that all the capacitors, Except C1, C8 and C9 are polarized and need to be installed with the correct polarity. The long lead of the capacitors go in the square holes.

Our kit has 1N914 for the diodes and a 2N3904 for Q2. These are not the original component types. Some folks make a case that you need the original components. We have compared our kit unit with a unit built with the original Q2 and Diode values. We can hear no difference at all.

Here's an inside view of the unit we built to give you a real view of our construction.





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Here is a chart of voltages taken at the transistor pins. Use these voltages as a guideline. You may not get the exact readings listed, but should be somewhere in this general range.

Component	Location	Voltage
9 volt power supply		9.5v
Q1	Collector	9.5v
	Base	4.5v
	Emitter	3.6v
Q2	Collector	4.5v
	Base	0.9v
	Emitter	0.2v
Q3	Collector	9.5v
	Base	4.7v
	Emitter	3.7v
Q4	Collector	9.2v
	Base	4.7v
	Emitter	3.7v
Q5	Collector	3.8v
	Base	0.8v
	Emitter	0.2v