

## Dan Armstrong™ Red Ranger™ Replica Instructions

Version 2016September09

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This is a very nice, clean tone booster that has a 3-way switch for 1) treble boost, 2) straight boost 3) bass boost. The original unit plugged right into a guitar jack, this is a stompbox version with true-bypass and also has a volume control which the original did not have. We prefer a linear taper 100k pot for the volume, but a log taper can be used with good results and other values should also work fine.

Building the kit is very straight forward. Follow the General Instructions. The toggle switch is a standard DPDT on-off-on switch. On the following page is an inside view of the unit we built to give you a real view of our construction.

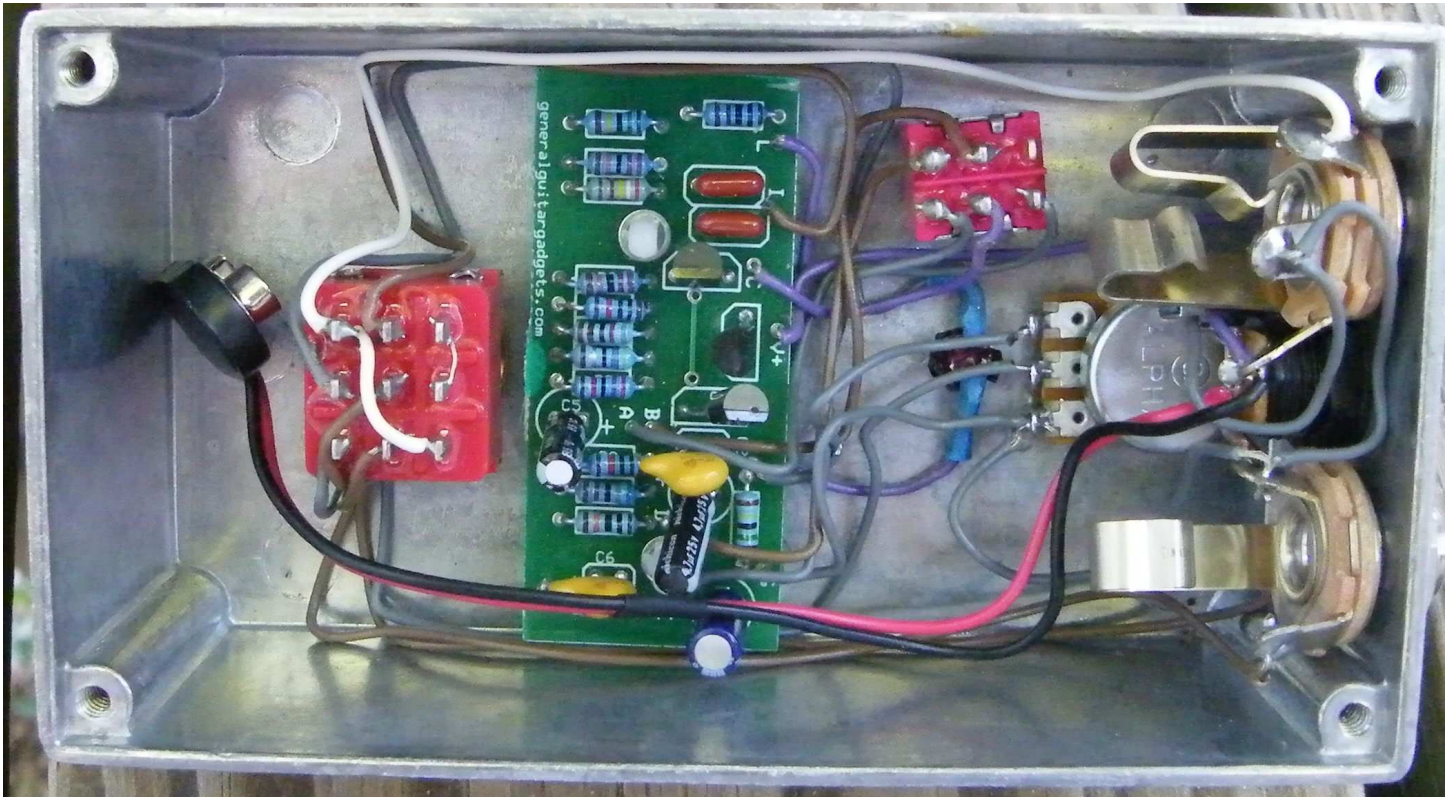
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Here is a chart of voltages taken at the IC pins. Use these voltages as a guideline. You may not get the exact readings listed, but should be somewhere in the area.

<b>Component</b>	<b>Location</b>	<b>Voltage</b>
9 volt power supply		9.7v
Q1	Emitter	4.3v
	Base	4.8v
	Collector	9.1v
Q2	Emitter	4.3v
	Base	4.8v
	Collector	9.7v
Q3	Emitter	9.7v
	Base	9.1v
	Collector	4.8