



Orange™ or Apollo™ Tone Booster Replica Instructions

Version 2014December30

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This is a replica of the **Orange™ (or Apollo™) Replica Tone Booster**. Follow the General Instructions and the Layout/Wiring Diagram. The original unit did not have a Volume control. We added a volume control because it just seems to make sense. When the volume is on full, the circuit is the same as the original that doesn't have the volume control. Note that the photos in these instructions are for the NPN Orange Tone Booster version. Remember to follow the layout/wiring diagram for the PNP version if you are using a PNP transistor.

If you do not include the Volume Control and only have the Tone Control as in the originals, we recommend that you install the 390K R11 resistor so that you won't get bypass switch popping.

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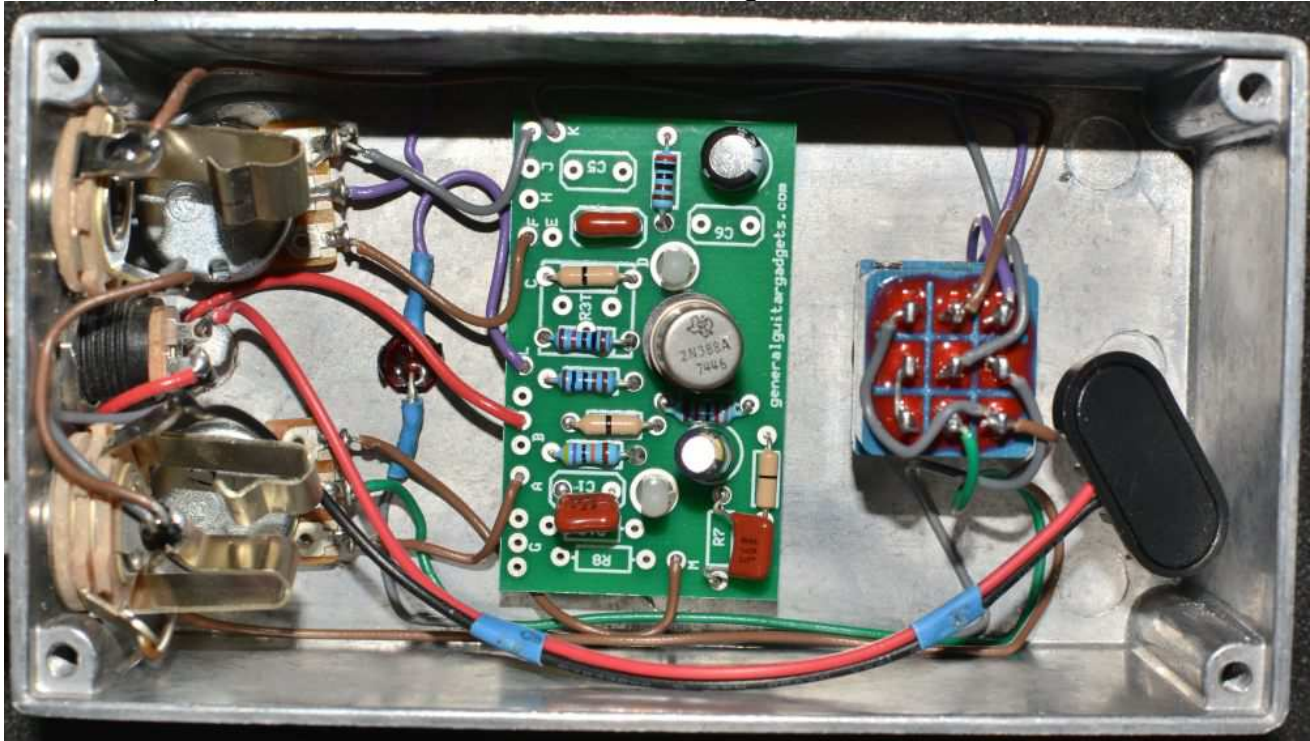
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Here is a photo of the inside of the 2-knob Orange Tone booster.



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

Component	Location	Voltage
9 volt power supply		9.2v
Q1 (Germanium)	Collector	5.9v
	Base	0.9v
	Emitter	0.7v