

## WHRL (Way Huge™ Red Llama™ Overdrive Replica) Instructions

Version 2009 January 26

Copyright 2008 JD Sleep

Permission refused for posting/serving this file from any site other than [www.generalguitargadgets.com](http://www.generalguitargadgets.com)



This is the WHRL Overdrive kit (Way Huge™ Red Llama™ Replica). This Overdrive is an easy to build project that will produce a great "overdriven tube" sound to your guitar signal. The circuit originated from Craig Anderton's excellent book [Electronic Projects for Musicians](#). Named "Tube Sound Fuzz" (project 24) Some of the part values are slightly different.

Use the project documents provided, starting with the General Build Instructions. Make sure to use an unbuffered version of the 4049 IC. C2 and C5 have hole spacing for caps with lead spacing of 0.1 or 0.2 inch. These are the common spacings for small ceramic caps, and sometimes it's difficult to find them in just one or the other spacing. If you use 0.1 spacing caps, make sure to insert the leads in the top two holes (nearest the edge with the off-board connection pads).

The kit includes two 1Meg resistors that you can use as "pull down" resistors if you think you absolutely must have it like the original. The pull down resistor on the output is completely unnecessary since the volume pot on the output provides the pull down needed. There is also space on the PCB for the input and this project uses a 1M5 resistor for that.

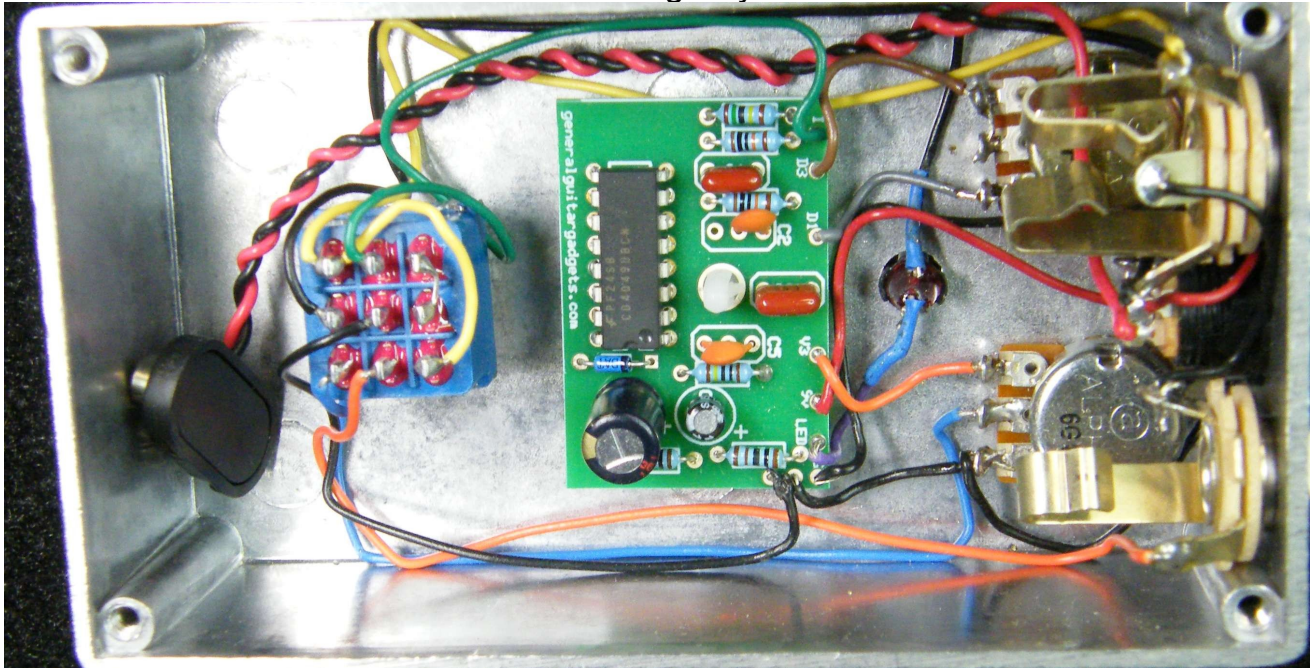
## WHRL (Way Huge™ Red Llama™ Overdrive Replica) Instructions

*Version 2009 January 26*

*Copyright 2008 JD Sleep*

*Permission refused for posting/serving this file from any site other than [www.generalguitargadgets.com](http://www.generalguitargadgets.com)*

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



For trouble shooting purposes, here are the voltages at the IC pins:

Component	Location	Voltage
9 volt power supply		9.5v
IC1	IC Pin 1	5.5v
	IC Pin 2	2.7v
	IC Pin 3	2.7v
	IC Pin 4	2.7v
	IC Pin 5	2.7v
	IC Pin 6	0.01v
	IC Pin 7	5.5v
	IC Pin 8	0.0v
	IC Pin 9	5.5v



# WHRL (Way Huge™ Red Llama™ Overdrive Replica) Instructions

*Version 2009 January 26*

*Copyright 2008 JD Sleep*

*Permission refused for posting/serving this file from any site other than [www.generalguitargadgets.com](http://www.generalguitargadgets.com)*

	IC Pin 10	0.01v
	IC Pin 11	5.5v
	IC Pin 12	0.01v
	IC Pin 13	0.0v
	IC Pin 14	5.5v
	IC Pin 15	0.01v
	IC Pin 16	0.0v