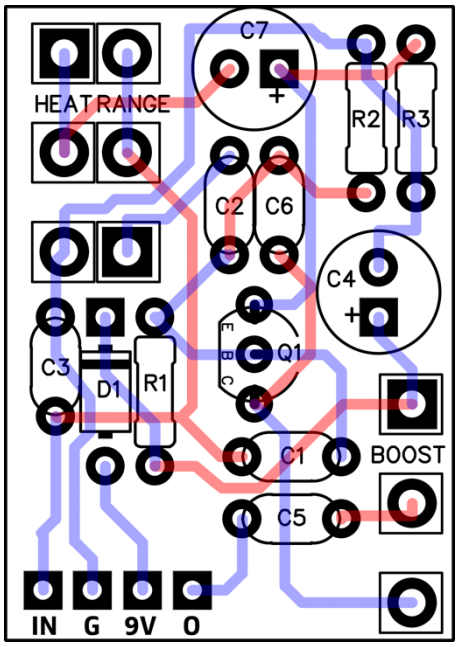
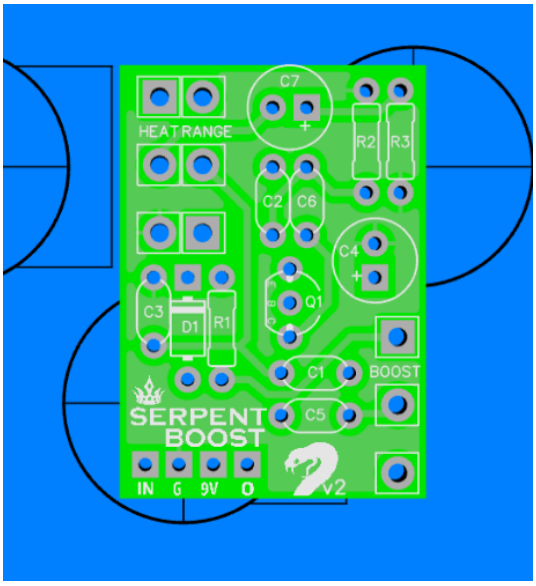
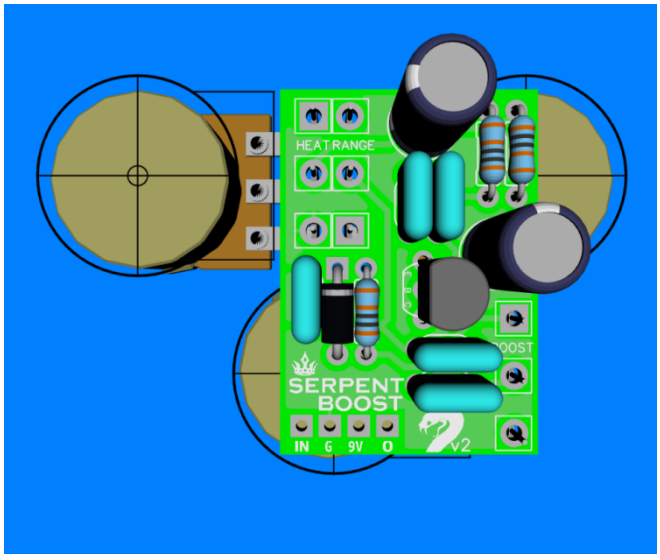
Serpent Boost

Rangemaster Inspired Boost







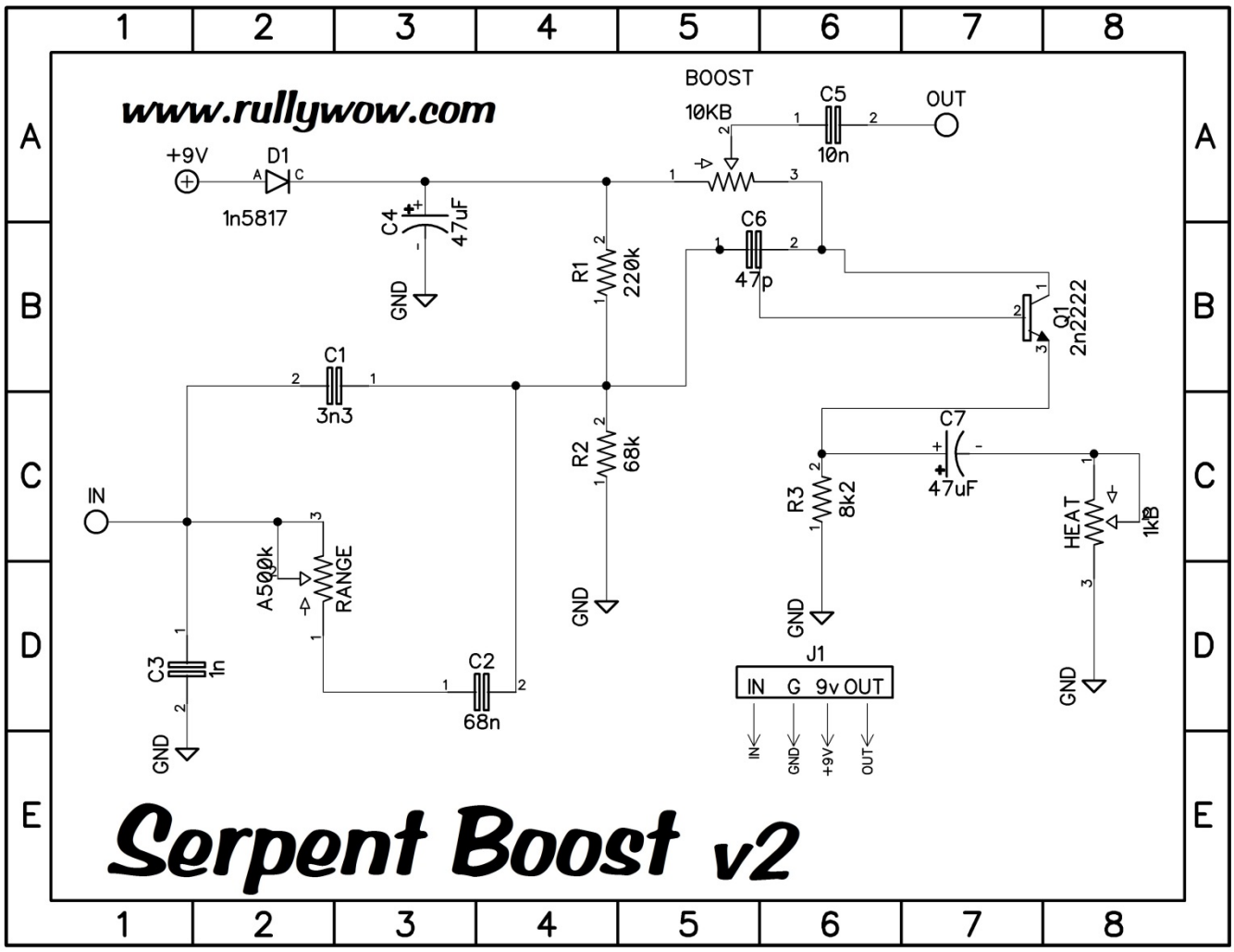
DESCRIPTION

Inspired by the Rangemaster and the Naga Viper boost, the Serpent Boost is a rangemaster with tweaks. The LEVEL control allows you to spank the front end of your amp or another pedal. The HEAT control adds extra gristle. The RANGE control lets you go from full range to a classic treble boost. Don't be fooled by the miniature size of this PCB; this circuit is bound to be one of your favorite versatile boosts!

Serpent Boost v2									
Caps				Resistors				Diodes	
Location	Value			Location	Value			Location	Type
C1	3n3			R1	220k			D1	1n5817
C2	68n			R2	68k			Pots	
C3	1n			R3	8k2			RANGE	A500k
C4	47uF							HEAT	1kB
C5	10n							BOOST	10KB
C6	47p							Transistor	
C7	47uF							Q1	P2N2222A

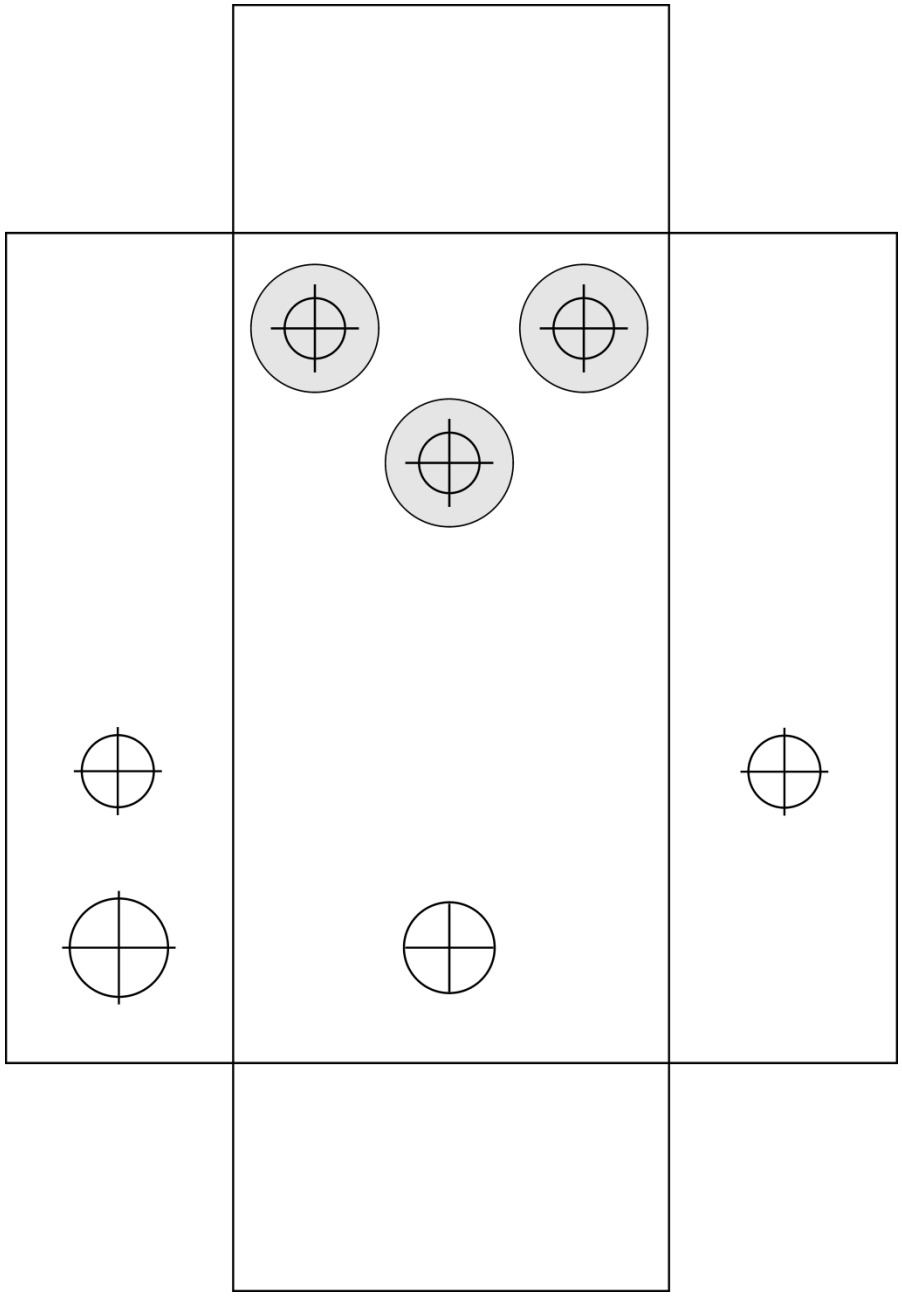
BUILD TIPS

- It is a good call to solder components from shortest height to tallest. In this case, you should start with resistors, diodes, film caps, transistor and the electrolytic caps last.
- The transistor may be substituted with similar types. The pinout (E-B-C) is labeled right on the PCB to help you get the orientation correct. Experiment with what you have on hand
- All pots are 16mm Alpha PCB mount. It is a very good idea to drill holes in your enclosure first, and mount the pots with the nuts **BEFORE** soldering the pots to the PCB. This ensures you won't put a lot of stress on the PCB.
- Be sure to insulate the pots from shorting on the back of the PCB. There are special pot covers or you may use tape or some other insulating material.
- Before putting your creation into its enclosure, you should always test it! If it doesn't work outside the enclosure, it won't work inside (I promise!)


www.rullywow.com
BOOST
10KB
C5
10n
OUT
+9V
D1
1n5817
C4
47uF
GND
R1
220k
C6
47p
Q1
2n2222
C1
3n3
R2
68k
C7
47uF
R3
8k2
HEAT
1kB
IN
A500k
RANGE
C3
1n
C2
68n
J1
IN G 9v OUT
Serpent Boost v2

DRILL GUIDE FOR 1590B

This is an APPROXIMATE drill guide. Enclosures differ in size so be sure to measure before you drill!



TERMS OF USE

PCBs from www.rullywow.com are intended for DIY use and are not allowed for commercial resale. It is OK to build (and sell) a few pedals for your friends, bandmates, yourself (that is what the DIY guitar pedal community is all about!)