

# Noomerang

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<http://gaussmarkov.net/wordpress/circuits/noomerang/>

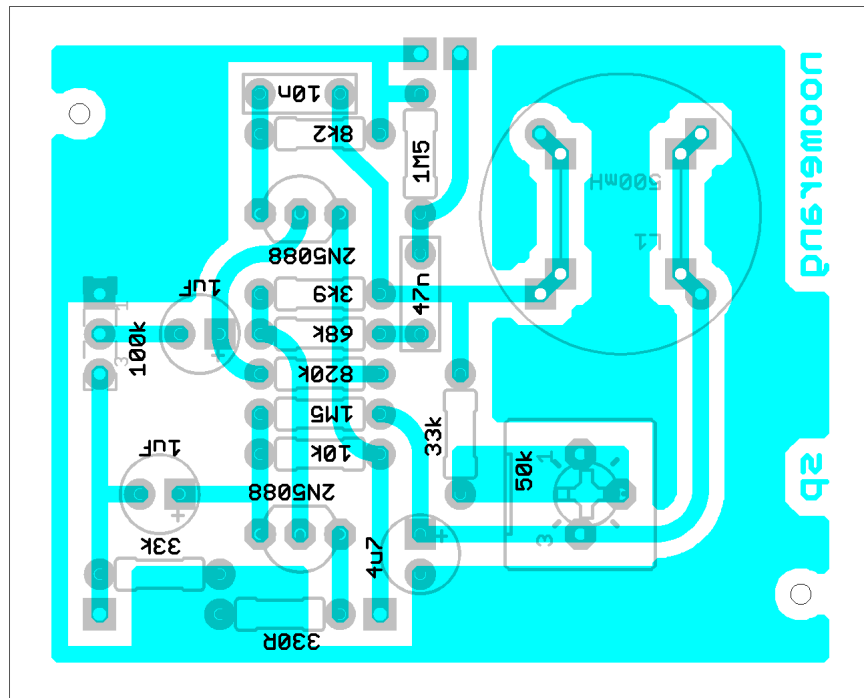
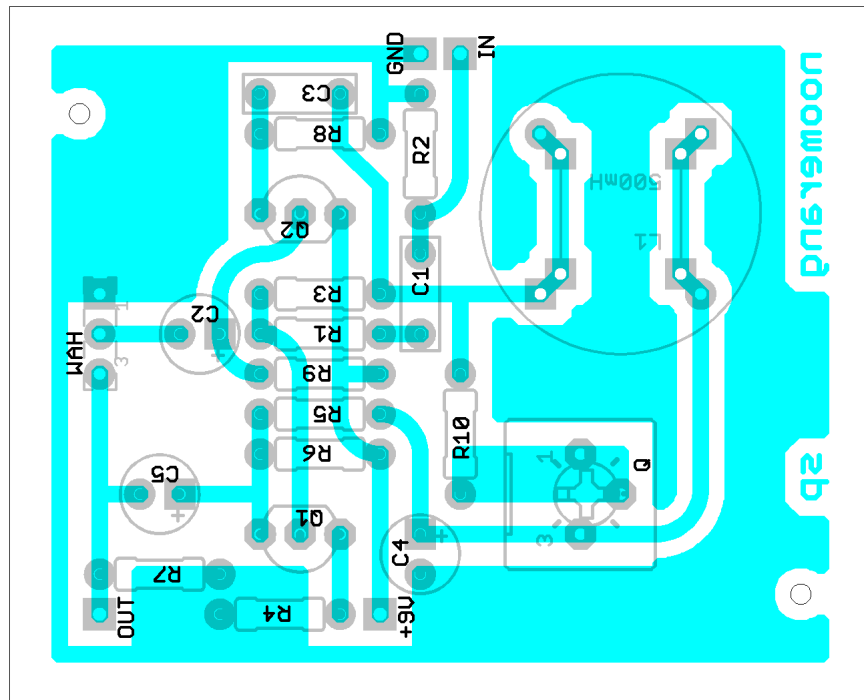
## Notes

SOURCE: <http://runoffgroove.com/noomerang.png>.

The Noomerang is a wah pedal design by B Tremblay of [runoffgroove.com](http://runoffgroove.com) fame. It's a variant of the Maestro Boomerang wah, which is a nice alternative to the usual Cry Baby clones. Unfortunately, the schematic seems to have slipped by without receiving much attention (having only been mentioned once on [diystompboxes.com](http://diystompboxes.com) - [here's the link](#)). It's not terribly different to the standard Boomerang circuit, the most important differences being the addition of a Q trimpot and a 33k resistor added to the board so that a standard 100k wah pot can be used instead of the 25k pot found on the original Boomerang. But both additions are clearly improvements on the original.

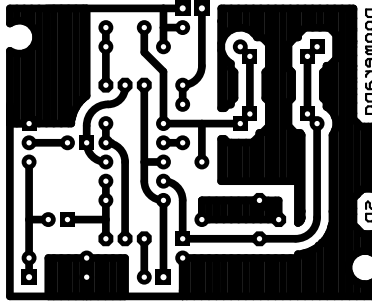
The layout has been designed to fit a standard wah shell of the kind sold by [Smallbear](#). I'm very happy with the sound of the Noomerang - a bit smoother and richer than a standard wah. Initially I used 1uF film caps for C2 and C5, but I got DC leakage that resulted in a crackling noise, like a bad pot, at the treble end of the wah's range. It seems that the polar nature of electrolytic caps is an advantage here (perhaps tantalum caps would work even better, but I haven't tried them).

# Layout



## PCB Image

When printing this image, use “Page Scaling: None” in the Adobe Reader print dialog.



## Parts

Part	Value	Library	Part	Value	Library
C1	47n	gm-caps-film-box	R1	68k	gm-resistors
C2	1uF	gm-caps-electro-pol	R2	1M5	gm-resistors
C3	10n	gm-caps-film-box	R3	3k9	gm-resistors
C4	4u7	gm-caps-electro-pol	R4	330R	gm-resistors
C5	1uF	gm-caps-electro-pol	R5	1M5	gm-resistors
L1	500mH	gm-inductors	R6	10k	gm-resistors
Q	50k	gm-pots	R7	33k	gm-resistors
Q1	2N5088	gm-trans	R8	8k2	gm-resistors
Q2	2N5088	gm-trans	R9	820k	gm-resistors
			R10	33k	gm-resistors
			WAH	100k	gm-pots

# Schematic

