

N.E.W. – DIY Buzzaround Build guide

The N.E.W. DIY Buzzaround is an NPN interpretation of the Baldwin Burns Buzzaround fuzz. A Muff style tonestack has also been added to the circuit. Unlike the other N.E.W. PCBs, this one is designed for “mojo” sized parts, typically 10mm long resistors, 7.5mm leg spaced film caps, and axial electrolytic caps with leg spacing in the 15-20mm range. Using TO-5 sockets to experiment with transistors is encouraged. Q3 will have the largest effect on the tone. Spend some money on a nice NOS NPN Germanium transistor here and use less rare components in the other positions.

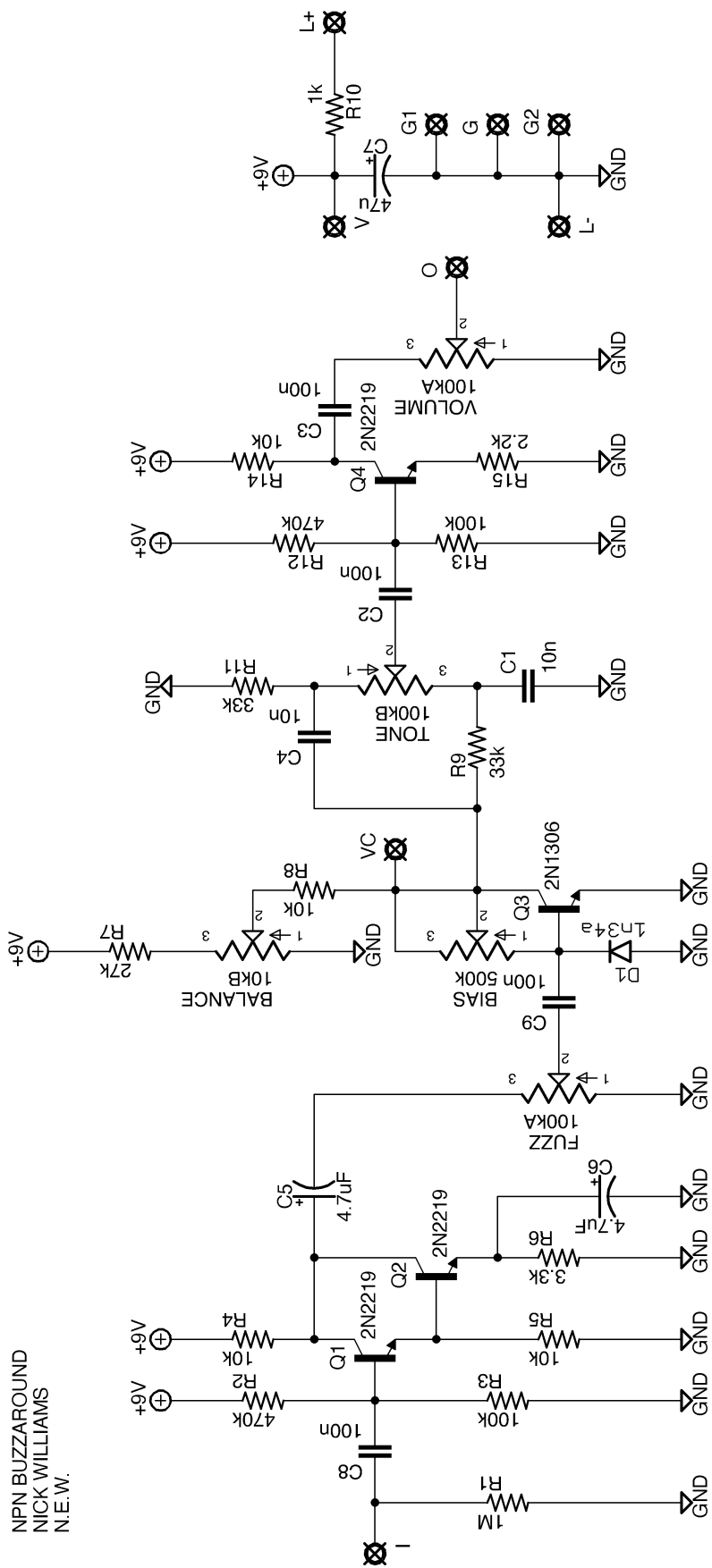
This guide is intended for people who have some experience building pedals. Component sourcing, component identification, assembly techniques, wiring stomp switches, etc. is not covered. The GCI Brutalist Jr. assembly guide has helpful information for less experienced builders. That guide can be found here: <http://www.kurtballou.com/brutalistjr/>

Don't forget to connect the ground pad of the PCB to the ground lug of the input, output, and DC power jacks!

Due to the scope of this project, technical support is not available. However, consider joining the GCI DIY PCB Builders group on Facebook to get advice from and share your work with other builders. We require that all group members agree to the rules before being accepted into the group. <https://www.facebook.com/groups/2454786551255317/>

Component values for the PCB are listed below. This is a BOM for the PCB only. I/O jacks, DC jack, switches, enclosure, and knobs are not listed. The schematic and a drill template for a 125BB (1590BBM) sized enclosure are also attached.

Part	Value	Device	Package	Description
R1	1M	10MM	1003	10mm resistor
R2	470k	10MM	1003	10mm resistor
R3	100k	10MM	1003	10mm resistor
R4	10k	10MM	1003	10mm resistor
R5	10k	10MM	1003	10mm resistor
R6	3.3k	10MM	1003	10mm resistor
R7	27k	10MM	1003	10mm resistor
R8	10k	10MM	1003	10mm resistor
R9	33k	10MM	1003	10mm resistor
R10	1k	10MM	1003	10mm resistor
R11	33k	10MM	1003	10mm resistor
R12	470k	10MM	1003	10mm resistor
R13	100k	10MM	1003	10mm resistor
R14	10k	10MM	1003	10mm resistor
R15	2.2k	10MM	1003	10mm resistor
C1	10n	C7.5/5	C7.5B5	Film cap
C2	100n	C7.5/5	C7.5B5	Film cap
C3	100n	C7.5/5	C7.5B5	Film cap
C4	10n	C7.5/5	C7.5B5	Film cap
C5	4.7uF	050_AXIAL	ELEC10UF_S	Electrolytic cap
C6	4.7uF	050_AXIAL	ELEC10UF_S	Electrolytic cap
C7	47u	050_AXIAL	ELEC10UF_S	Electrolytic cap
C8	100n	C7.5/5	C7.5B5	Film cap
C9	100n	C7.5/5	C7.5B5	Film cap
D1	1n34a	DO07	DO07	Germanium diode
Q1	2N2219	2N2219	TO5	NPN Si Transistor
Q2	2N2219	2N2219	TO5	NPN Si Transistor
Q3	2N1306	2N2219	TO5	NPN Ge Transistor
Q4	2N2219	2N2219	TO5	NPN Si Transistor
BIAS	500k	POTTRIM	B25P	trim pot
FUZZ	100kA	POT16MM	16MM	Potentiometers
TONE	100kB	POT16MM	16MM	Potentiometers
BALANCE	10kB	POT16MM	16MM	Potentiometers
VOLUME	100kA	POT16MM	16MM	Potentiometers
VC	Bias test point	PAD	SQUARE	PAD
V	9v in	PAD	SQUARE	PAD
G	Ground	PAD	SQUARE	PAD
G1	Ground	PAD	SQUARE	PAD
G2	Ground	PAD	SQUARE	PAD
I	Input to PCB	PAD	SQUARE	PAD
L+	LED +	PAD	SQUARE	PAD
L-	LED -	PAD	SQUARE	PAD
O	Output from PCB	PAD	SQUARE	PAD



NPN BUZZAROUND
NICK WILLIAMS
N.E.W.

