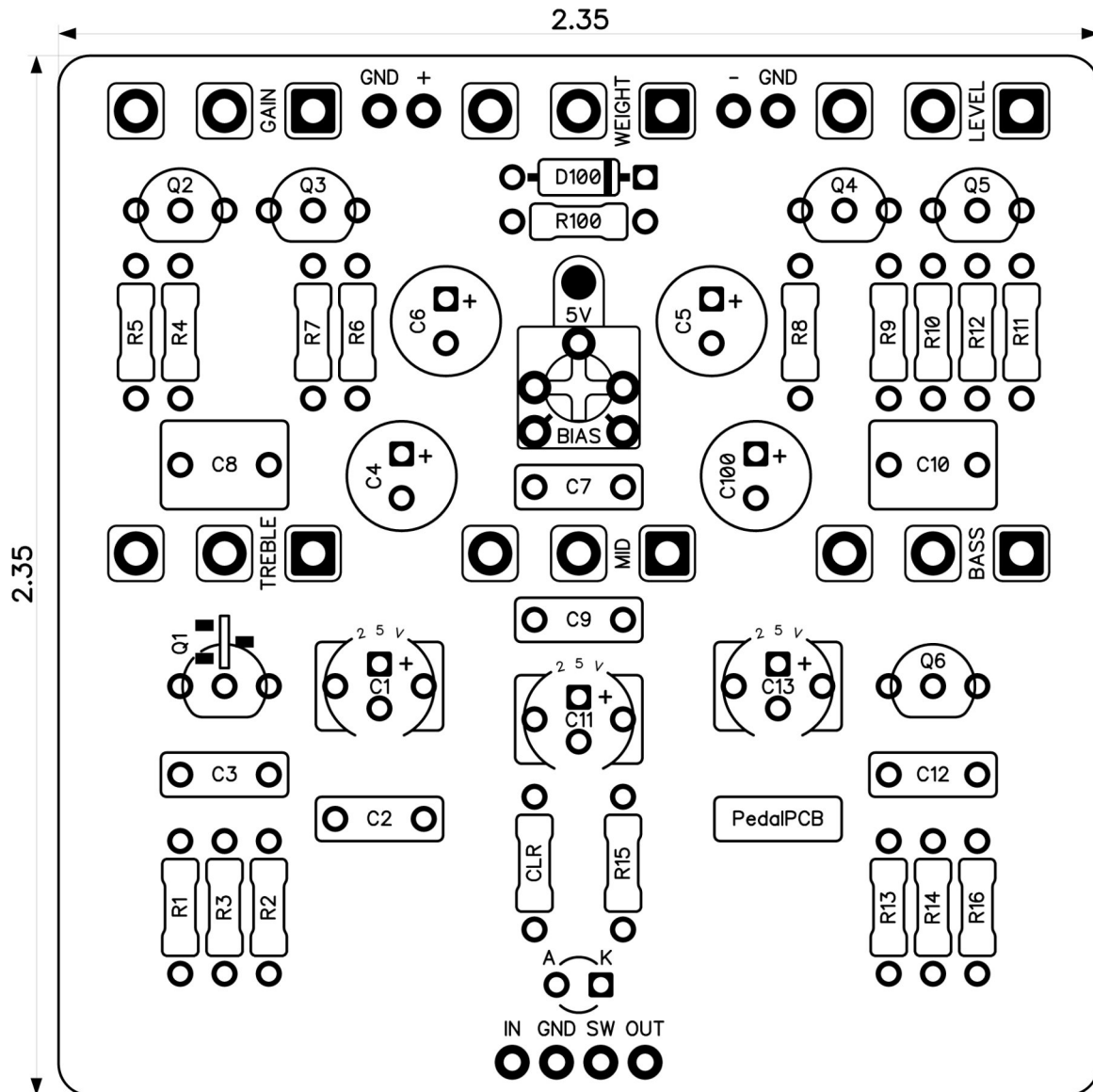


PedalPCB

Pestle Distortion

Revised 12/29/23



CONTROLS AND FEATURES

- Level
- Weight
- Gain
- Bass
- Mid
- Treble

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LOCATION	VALUE	TYPE	NOTES
R1	1M	Resistor, 1/4W	
R2	1M	Resistor, 1/4W	
R3	4K7	Resistor, 1/4W	
R4	4K7	Resistor, 1/4W	
R5	10K	Resistor, 1/4W	
R6	33K	Resistor, 1/4W	
R7	100K	Resistor, 1/4W	
R8	1K	Resistor, 1/4W	
R9	1K	Resistor, 1/4W	
R10	4K7	Resistor, 1/4W	
R11	4K7	Resistor, 1/4W	
R12	100K	Resistor, 1/4W	
R13	560R	Resistor, 1/4W	
R14	470K	Resistor, 1/4W	
R15	47K	Resistor, 1/4W	
R16	10K	Resistor, 1/4W	
R100	100R	Resistor, 1/4W	
CLR	4K7	Resistor, 1/4W	* LED current limiting resistor
C1	2u2	Electrolytic capacitor, 5mm	
C2	100p	Ceramic capacitor	
C3	22n	Film capacitor, 7.2 x 2.5mm	
C4	10u	Electrolytic capacitor, 5mm	
C5	22u	Electrolytic capacitor, 5mm	
C6	22u	Electrolytic capacitor, 5mm	
C7	10n	Film capacitor, 7.2 x 2.5mm	
C8	470p	Ceramic capacitor	
C9	47n	Film capacitor, 7.2 x 2.5mm	
C10	220n	Film capacitor, 7.2 x 5.0mm	
C11	1u	Electrolytic capacitor, 5mm	
C12	220p	Ceramic capacitor	
C13	1u	Electrolytic capacitor, 5mm	
C100	220u	Electrolytic capacitor, 5mm	
D100	1N5817	Schottky diode, DO-41	
Q1	2N5103	JFET transistor, N-channel	Subs: J201, MMBFJ201, etc
Q2	2N3904	BJT transistor, NPN TO-92	
Q3	2N3904	BJT transistor, NPN TO-92	
Q4	2N3904	BJT transistor, NPN TO-92	
Q5	2N3904	BJT transistor, NPN TO-92	
Q6	2N3904	BJT transistor, NPN TO-92	
BIAS	10K	Trimmer potentiometer, 3362P type	
LEVEL	A100K	16mm right-angle PCB mount pot	
WEIGHT	C100K	16mm right-angle PCB mount pot	
GAIN	B5K	16mm right-angle PCB mount pot	
BASS	A100K	16mm right-angle PCB mount pot	
MID	B10K	16mm right-angle PCB mount pot	
TREBLE	A100K	16mm right-angle PCB mount pot	



The circuit diagram shows a guitar amplifier with the following components and connections:

- Input Section:** An input jack (IN) is connected to a 1M resistor (R1) and a 100pF capacitor (C1) to ground. The signal path continues through a 1M resistor (R2) to the gate of a 5103 JFET (Q1).
- Preamp Section:** The JFET (Q1) is biased by a 4K7 resistor (R3) to ground. Its drain is connected to a 22nF capacitor (C3) and a 100K resistor (R4) to the base of a 3904 BJT (Q2).
- Tone Stack:** The base of Q2 is connected to a 10uF capacitor (C4) to ground. The emitter of Q2 is connected to a 10K resistor (R5) to ground. The collector of Q2 is connected to the base of a 3904 BJT (Q3).
- 50W Output Stage:** The base of Q3 is connected to a 33K resistor (R6) to VCC. The emitter of Q3 is connected to a 4K7 resistor (R7) to ground. The collector of Q3 is connected to the base of a 3904 BJT (Q4).
- Power Supply Section:** The base of Q4 is connected to a 1K resistor (R8) to ground. The emitter of Q4 is connected to a 1K resistor (R9) to ground. The collector of Q4 is connected to VCC. A 22uF capacitor (C5) is connected to ground.
- Output Section:** The output of the amplifier is connected to a 50W speaker (SPK) through a 100K resistor (R10).
- Controls:** A 50K potentiometer (P1) is connected to the input of the amplifier. A 50K potentiometer (P2) is connected to the output of the amplifier.
- Power Supply:** A 100V power supply is connected to the circuit. A 100K resistor (R11) is connected to ground. A 220uF capacitor (C6) is connected to ground.

TP1 5V (5.11v measured)

