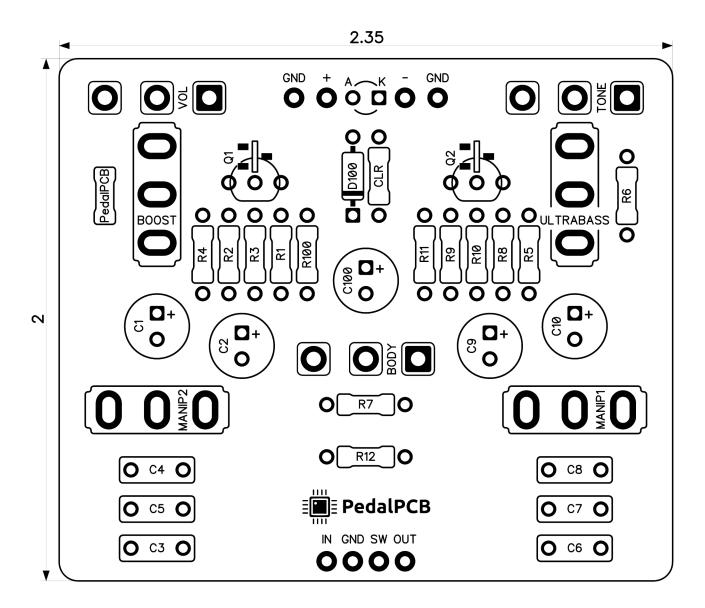


Revised 8/24/24



#### **CONTROLS AND FEATURES**

- Tone
- Body
- Volume
- UltraBass (Toggle Switch)
- Boost (Toggle Switch)
- Manip 1 (Toggle Switch)
- Manip 2 (Toggle Switch)

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Parts List (Page 1 of 1)

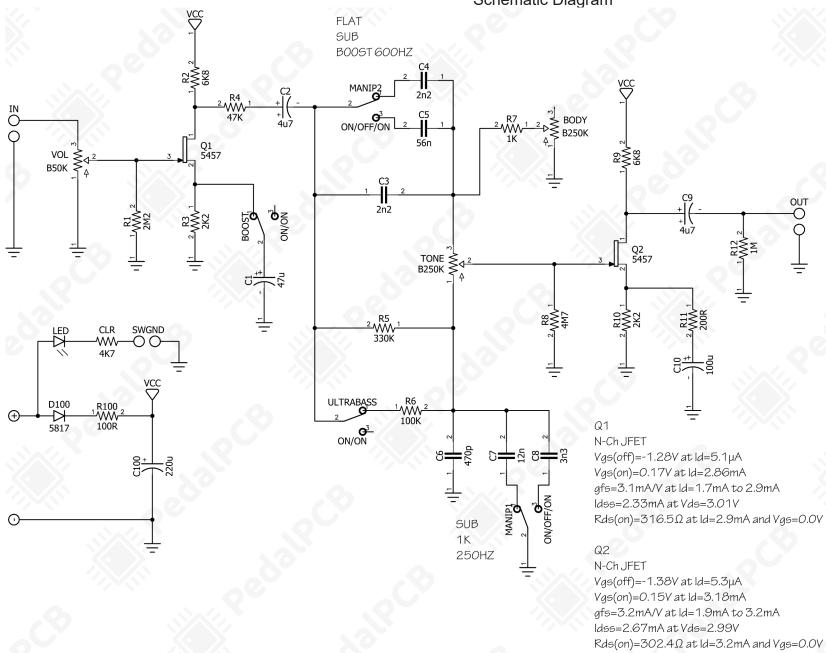
LOCATION	VALUE	TYPE	NOTES
R1	2M2	Resistor, 1/4W	
R2	6K8	Resistor, 1/4W	
R3	2K2	Resistor, 1/4W	
R4	47K	Resistor, 1/4W	
R5	330K	Resistor, 1/4W	
R6	100K	Resistor, 1/4W	
R7	1K	Resistor, 1/4W	
R8	4M7	Resistor, 1/4W	
R9	6K8	Resistor, 1/4W	
R10	2K2	Resistor, 1/4W	
R11	200R	Resistor, 1/4W	
R12	1M	Resistor, 1/4W	
R100	100R	Resistor, 1/4W	
CLR	4K7	Resistor, 1/4W	* LED current limiting resistor
C1	47u	Electrolytic capacitor, 5mm	
C2	4u7	Electrolytic capacitor, 5mm	
	2n2	Film capacitor, 7.2 x 2.5mm	
C3 C4	2n2	Film capacitor, 7.2 x 2.5mm	
C5	56n	Film capacitor, 7.2 x 2.5mm	
C6	470p	Ceramic capacitor	
C7	12n	Film capacitor, 7.2 x 2.5mm	
C8	3n3	Film capacitor, 7.2 x 2.5mm	
C9	4u7	Electrolytic capacitor, 5mm	
C10	100u	Electrolytic capacitor, 5mm	
C100	220u	Electrolytic capacitor, 5mm	
D100	1N5817	Schottky diode, DO-41	
Q1	2N5457	JFET transistor, N-channel	
Q2	2N5457	JFET transistor, N-channel	
	2.10.01	or an american, in charmer	
BOOST	ON/ON	Toggle switch, SPDT	2-position (ON/ON)
ULTRABASS	ON/ON	Toggle switch, SPDT	2-position (ON/ON)
MANIP1	ON/OFF/ON	Toggle switch, SPDT	3-position (ON/OFF/ON)
MANIP2	ON/OFF/ON	Toggle switch, SPDT	3-position (ON/OFF/ON)
VOL	B50K	16mm right-angle PCB mount pot	
TONE	B250K	16mm right-angle PCB mount pot	
BODY	B250K	16mm right-angle PCB mount pot	

 $\begin{subarray}{l} \textbf{Q1} \\ \textbf{Vgs}(off)=-1.28V \ at \ Id=5.1μA \\ \textbf{Vgs}(on)=0.17V \ at \ Id=2.86mA \\ \textbf{gfs}=3.1mA/V \ at \ Id=1.7mA \ to \ 2.9mA \\ \textbf{Idss}=2.33mA \ at \ Vds=3.01V \\ \textbf{Rds}(on)=316.5\Omega \ at \ Id=2.9mA \ and \\ \textbf{Vgs}=0.0V \\ \end{subarray}$ 

 $\begin{subarray}{c} \bf Q2 \\ Vgs(off)=-1.38V \ at \ Id=5.3μA \\ Vgs(on)=0.15V \ at \ Id=3.18mA \\ gfs=3.2mA/V \ at \ Id=1.9mA \ to \ 3.2mA \\ Idss=2.67mA \ at \ Vds=2.99V \\ Rds(on)=302.4\Omega \ at \ Id=3.2mA \ and \\ Vgs=0.0V \\ \end{subarray}$ 

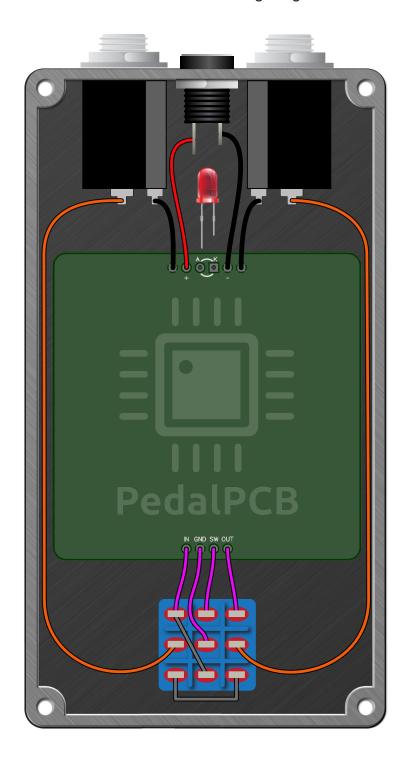


Schematic Diagram





Wiring Diagram



Drill Template
125B Enclosure

