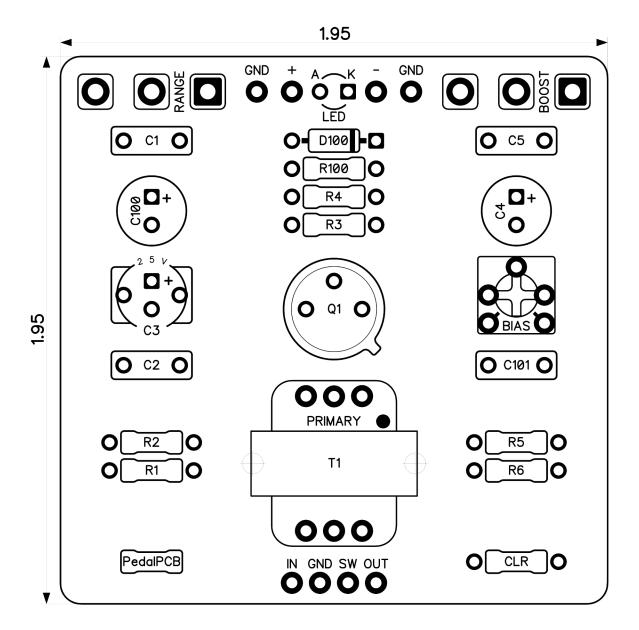


Revised 4/16/24



### **CONTROLS AND FEATURES**

- Boost
- Range

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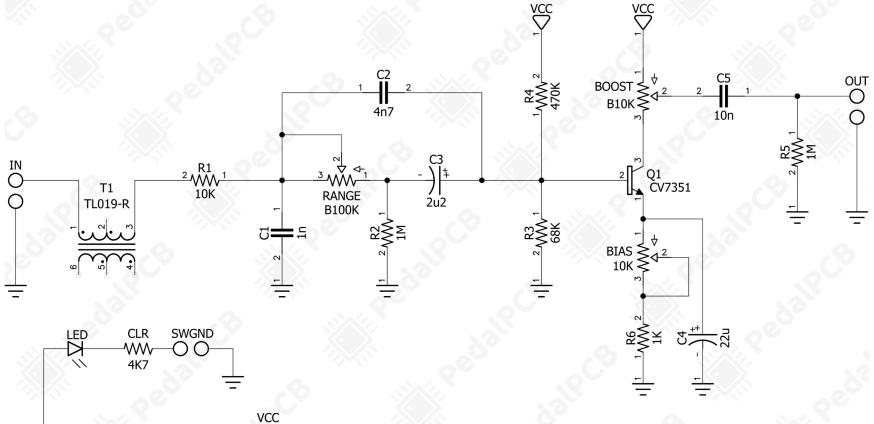


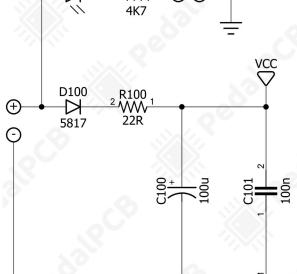
Parts List (Page 1 of 1)

LOCATION	VALUE	TYPE	NOTES
R1	10K	Resistor, 1/4W	110120
R2	1M	Resistor, 1/4W	
R3	68K	Resistor, 1/4W	
R4	470K	Resistor, 1/4W	
R5	1M	Resistor, 1/4W	
R6	1K	Resistor, 1/4W	
R100	22R	Resistor, 1/4W	
CLR	4K7		* LED current limiting register
CLK	4N/	Resistor, 1/4W	* LED current limiting resistor
C4	4 :-	Film conscitor 7.0 v 0.5 mm	
C1	1n	Film capacitor, 7.2 x 2.5mm	
C2	4n7	Film capacitor, 7.2 x 2.5mm	
C3	2u2	Film capacitor, 7.2 x 5.0mm	
03	ZuZ	- Substitute component -	
C3	2u2	Electrolytic capacitor, 5mm	
00	ZuZ	Electrorytic capacitor, Simin	
C4	22u	Film capacitor, 7.2 x 2.5mm	
C5	10n	Electrolytic capacitor, 5mm	
C100	100u		
		Electrolytic capacitor, 5mm	
C101	100n	Film capacitor, 7.2 x 2.5mm	
D100	1N5817	Schottky diode, DO-41	
D 100	1113017	Ochotiky diode, DO-41	
Q1	CV7351	Germanium BJT transistor, NPN	TO-5
Q I	C V 7 3 3 1	Germanium Bor transistor, Nr N	10-3
 T1	TL019-R	Audio Transformer	10KCT/600CT
1 1	TEO 19-1X	Addio Transionnei	101(01/00001
BIAS	10K	Trimmer potentiometer, 3362P type	
DIAG	TOR	Thirline potentionleter, 5502F type	
BOOST	B10K	16mm right-angle PCB mount pot	
RANGE	B100K	16mm right-angle PCB mount pot	
RANGE	BIUUK	Tomin right-arigie PCB mount pot	



Schematic Diagram







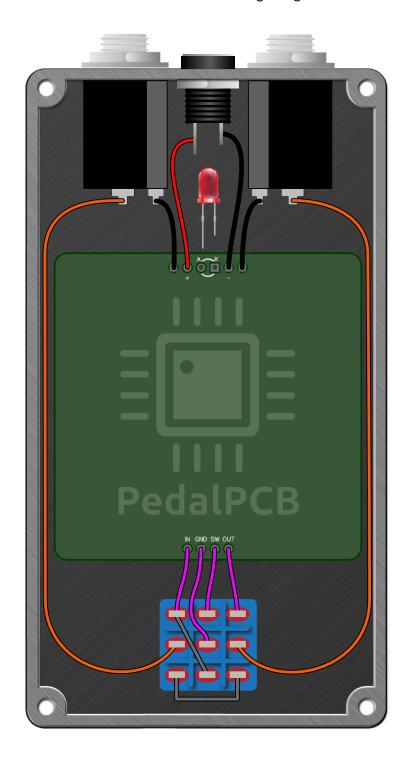
# **Q1 (Original parameters as measured by DCA75)** hFE=321 at Ic=5.03mA

Vbe=0.380V at Ib=5.00mA VceSat=0.013V at Ic=5.0mA and Ib=1.00mA IcLeak=0.138mA

Adjust BIAS to 5.8VDC on Collector (Can be measured on lug 3 of Boost potentiometer)



Wiring Diagram





Drill Template
125B Enclosure

