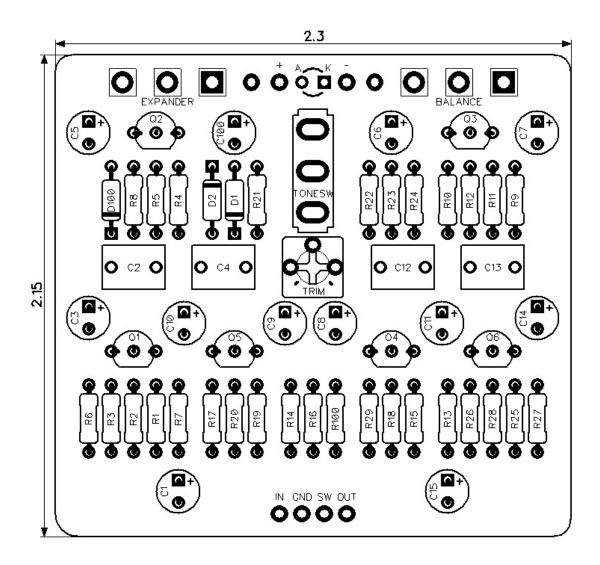


Revised 3/7/21



CONTROLS AND FEATURES

- Balance
- Expander
- Tone (Toggle switch)

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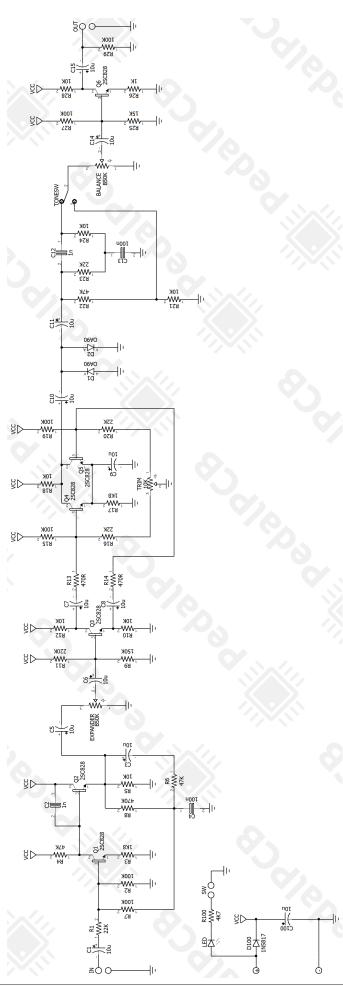
Parts List (Page 1 of 2)

LOCATION VALUE TYPE NOTES R1 22K Resistor, 1/4W R2 100K Resistor, 1/4W R3 1K8 Resistor, 1/4W R4 47K Resistor, 1/4W R5 10K Resistor, 1/4W R6 47K Resistor, 1/4W R6 47K Resistor, 1/4W R8 470K Resistor, 1/4W R8 150K Resistor, 1/4W R8 150K Resistor, 1/4W R8 160K Resistor, 1/4W R8 174W R11 220K Resistor, 1/4W R8 R12 10K Resistor, 1/4W R12 10K Resistor, 1/4W R13 470R Resistor, 1/4W R15 100K Resistor, 1/4W R15 100K Resistor, 1/4W R16 22K Resistor, 1/4W R18 10K Resistor, 1/4W R18 10K Resistor, 1/4W R21 10K Resistor, 1/4W	
R2 100K Resistor, 1/4W R3 1K8 Resistor, 1/4W R4 47K Resistor, 1/4W R5 10K Resistor, 1/4W R6 47K Resistor, 1/4W R7 100K Resistor, 1/4W R8 470K Resistor, 1/4W R9 150K Resistor, 1/4W R10 10K Resistor, 1/4W R11 220K Resistor, 1/4W R12 10K Resistor, 1/4W R13 470R Resistor, 1/4W R14 470R Resistor, 1/4W R15 100K Resistor, 1/4W R16 22K Resistor, 1/4W R17 1K8 Resistor, 1/4W R18 10K Resistor, 1/4W R19 100K Resistor, 1/4W R20 22K Resistor, 1/4W R21 10K Resistor, 1/4W R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W <td></td>	
R3 1K8 Resistor, 1/4W R4 47K Resistor, 1/4W R5 10K Resistor, 1/4W R6 47K Resistor, 1/4W R7 100K Resistor, 1/4W R8 470K Resistor, 1/4W R9 150K Resistor, 1/4W R10 10K Resistor, 1/4W R11 220K Resistor, 1/4W R12 10K Resistor, 1/4W R13 470R Resistor, 1/4W R14 470R Resistor, 1/4W R15 100K Resistor, 1/4W R16 22K Resistor, 1/4W R17 1K8 Resistor, 1/4W R18 10K Resistor, 1/4W R19 100K Resistor, 1/4W R18 10K Resistor, 1/4W R20 22K Resistor, 1/4W R21 10K Resistor, 1/4W R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W <td></td>	
R4 47K Resistor, 1/4W R5 10K Resistor, 1/4W R6 47K Resistor, 1/4W R7 100K Resistor, 1/4W R8 470K Resistor, 1/4W R9 150K Resistor, 1/4W R10 10K Resistor, 1/4W R11 220K Resistor, 1/4W R11 220K Resistor, 1/4W R12 10K Resistor, 1/4W R13 470R Resistor, 1/4W R14 470R Resistor, 1/4W R15 100K Resistor, 1/4W R16 22K Resistor, 1/4W R17 1K8 Resistor, 1/4W R18 10K Resistor, 1/4W R19 100K Resistor, 1/4W R20 22K Resistor, 1/4W R21 10K Resistor, 1/4W R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W R24 10K Resistor, 1/4W <	
R5 10K Resistor, 1/4W R6 47K Resistor, 1/4W R7 100K Resistor, 1/4W R8 470K Resistor, 1/4W R9 150K Resistor, 1/4W R10 10K Resistor, 1/4W R11 220K Resistor, 1/4W R12 10K Resistor, 1/4W R13 470R Resistor, 1/4W R14 470R Resistor, 1/4W R15 100K Resistor, 1/4W R16 22K Resistor, 1/4W R17 1K8 Resistor, 1/4W R18 10K Resistor, 1/4W R19 100K Resistor, 1/4W R20 22K Resistor, 1/4W R21 10K Resistor, 1/4W R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W R24 10K Resistor, 1/4W R25 15K Resistor, 1/4W R27 100K Resistor, 1/4W	
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R7 100K Resistor, 1/4W R8 470K Resistor, 1/4W R9 150K Resistor, 1/4W R10 10K Resistor, 1/4W R11 220K Resistor, 1/4W R12 10K Resistor, 1/4W R13 470R Resistor, 1/4W R14 470R Resistor, 1/4W R15 100K Resistor, 1/4W R16 22K Resistor, 1/4W R17 1K8 Resistor, 1/4W R18 10K Resistor, 1/4W R19 100K Resistor, 1/4W R20 22K Resistor, 1/4W R21 10K Resistor, 1/4W R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W R24 10K Resistor, 1/4W R25 15K Resistor, 1/4W R26 1K Resistor, 1/4W R27 100K Resistor, 1/4W R29 100K Resistor, 1/4W	
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R13 470R Resistor, 1/4W R14 470R Resistor, 1/4W R15 100K Resistor, 1/4W R16 22K Resistor, 1/4W R17 1K8 Resistor, 1/4W R18 10K Resistor, 1/4W R19 100K Resistor, 1/4W R20 22K Resistor, 1/4W R21 10K Resistor, 1/4W R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W R24 10K Resistor, 1/4W R25 15K Resistor, 1/4W R26 1K Resistor, 1/4W R27 100K Resistor, 1/4W R28 10K Resistor, 1/4W R29 100K Resistor, 1/4W R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C3 10u Electrolytic capacitor, 5mm C4 100n Film capacitor, 7.2 x 2.5mm C5 10u <td></td>	
R14 470R Resistor, 1/4W R15 100K Resistor, 1/4W R16 22K Resistor, 1/4W R17 1K8 Resistor, 1/4W R18 10K Resistor, 1/4W R19 100K Resistor, 1/4W R20 22K Resistor, 1/4W R21 10K Resistor, 1/4W R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W R24 10K Resistor, 1/4W R25 15K Resistor, 1/4W R26 1K Resistor, 1/4W R27 100K Resistor, 1/4W R28 10K Resistor, 1/4W R29 100K Resistor, 1/4W R100 4K7 Resistor, 1/4W R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C3 10u Electrolytic capacitor, 5mm C4 100n Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electroly	
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R16 22K Resistor, 1/4W R17 1K8 Resistor, 1/4W R18 10K Resistor, 1/4W R19 100K Resistor, 1/4W R20 22K Resistor, 1/4W R21 10K Resistor, 1/4W R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W R24 10K Resistor, 1/4W R25 15K Resistor, 1/4W R26 1K Resistor, 1/4W R27 100K Resistor, 1/4W R28 10K Resistor, 1/4W R29 100K Resistor, 1/4W R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C3 10u Electrolytic capacitor, 5mm C4 100n Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm	
R17 1K8 Resistor, 1/4W R18 10K Resistor, 1/4W R19 100K Resistor, 1/4W R20 22K Resistor, 1/4W R21 10K Resistor, 1/4W R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W R24 10K Resistor, 1/4W R25 15K Resistor, 1/4W R26 1K Resistor, 1/4W R27 100K Resistor, 1/4W R28 10K Resistor, 1/4W R29 100K Resistor, 1/4W R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C2 1n Film capacitor, 7.2 x 2.5mm C3 10u Electrolytic capacitor, 5mm C4 100n Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm <td></td>	
R18 10K Resistor, 1/4W R19 100K Resistor, 1/4W R20 22K Resistor, 1/4W R21 10K Resistor, 1/4W R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W R24 10K Resistor, 1/4W R25 15K Resistor, 1/4W R26 1K Resistor, 1/4W R27 100K Resistor, 1/4W R28 10K Resistor, 1/4W R29 100K Resistor, 1/4W R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C3 10u Electrolytic capacitor, 5mm C4 100n Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm	
R19 100K Resistor, 1/4W R20 22K Resistor, 1/4W R21 10K Resistor, 1/4W R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W R24 10K Resistor, 1/4W R25 15K Resistor, 1/4W R26 1K Resistor, 1/4W R27 100K Resistor, 1/4W R28 10K Resistor, 1/4W R29 100K Resistor, 1/4W R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C2 1n Film capacitor, 7.2 x 2.5mm C3 10u Electrolytic capacitor, 5mm C4 10on Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm	
R20 22K Resistor, 1/4W R21 10K Resistor, 1/4W R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W R24 10K Resistor, 1/4W R25 15K Resistor, 1/4W R26 1K Resistor, 1/4W R27 100K Resistor, 1/4W R28 10K Resistor, 1/4W R29 100K Resistor, 1/4W R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C2 1n Film capacitor, 7.2 x 2.5mm C3 10u Electrolytic capacitor, 5mm C4 10on Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm	
R21 10K Resistor, 1/4W R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W R24 10K Resistor, 1/4W R25 15K Resistor, 1/4W R26 1K Resistor, 1/4W R27 100K Resistor, 1/4W R28 10K Resistor, 1/4W R29 100K Resistor, 1/4W R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C2 1n Film capacitor, 7.2 x 2.5mm C3 10u Electrolytic capacitor, 5mm C4 100n Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm	
R22 47K Resistor, 1/4W R23 22K Resistor, 1/4W R24 10K Resistor, 1/4W R25 15K Resistor, 1/4W R26 1K Resistor, 1/4W R27 100K Resistor, 1/4W R28 10K Resistor, 1/4W R29 100K Resistor, 1/4W R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C3 10u Electrolytic capacitor, 5mm C4 100n Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm	
R23 22K Resistor, 1/4W R24 10K Resistor, 1/4W R25 15K Resistor, 1/4W R26 1K Resistor, 1/4W R27 100K Resistor, 1/4W R28 10K Resistor, 1/4W R29 100K Resistor, 1/4W R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C2 1n Film capacitor, 7.2 x 2.5mm C3 10u Electrolytic capacitor, 5mm C4 100n Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm	
R24	
R25	
R26 1K Resistor, 1/4W R27 100K Resistor, 1/4W R28 10K Resistor, 1/4W R29 100K Resistor, 1/4W R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C2 1n Film capacitor, 7.2 x 2.5mm C3 10u Electrolytic capacitor, 5mm C4 100n Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm	
R27	
R28 10K Resistor, 1/4W R29 100K Resistor, 1/4W R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C2 1n Film capacitor, 7.2 x 2.5mm C3 10u Electrolytic capacitor, 5mm C4 100n Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm	
R29 100K Resistor, 1/4W R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C2 1n Film capacitor, 7.2 x 2.5mm C3 10u Electrolytic capacitor, 5mm C4 100n Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm	
R100 4K7 Resistor, 1/4W C1 10u Electrolytic capacitor, 5mm C2 1n Film capacitor, 7.2 x 2.5mm C3 10u Electrolytic capacitor, 5mm C4 100n Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm C7 Electrolytic capacitor, 5mm	
C1 10u Electrolytic capacitor, 5mm C2 1n Film capacitor, 7.2 x 2.5mm C3 10u Electrolytic capacitor, 5mm C4 100n Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm	
C2	
C2	
C2	
C3	
C4 100n Film capacitor, 7.2 x 2.5mm C5 10u Electrolytic capacitor, 5mm C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm C8 10u Electrolytic capacitor, 5mm C9 10u Electrolytic capacitor, 5mm	
C5	
C6 10u Electrolytic capacitor, 5mm C7 10u Electrolytic capacitor, 5mm C8 10u Electrolytic capacitor, 5mm C9 10u Electrolytic capacitor, 5mm	
C7	
C8 10u Electrolytic capacitor, 5mm C9 10u Electrolytic capacitor, 5mm	
IC9 10u Flectrolytic capacitor 5mm	
Libertolytic capacitor, offill	
C10 10u Electrolytic capacitor, 5mm	
C11 10u Electrolytic capacitor, 5mm	
C12 In Film capacitor, 7.2 x 2.5mm	
C13 100n Film capacitor, 7.2 x 2.5mm	
C14 10u Electrolytic capacitor, 5mm	
C15 10u Electrolytic capacitor, 5mm	
C100 10u Electrolytic capacitor, 5mm	
- Continued on next page -	



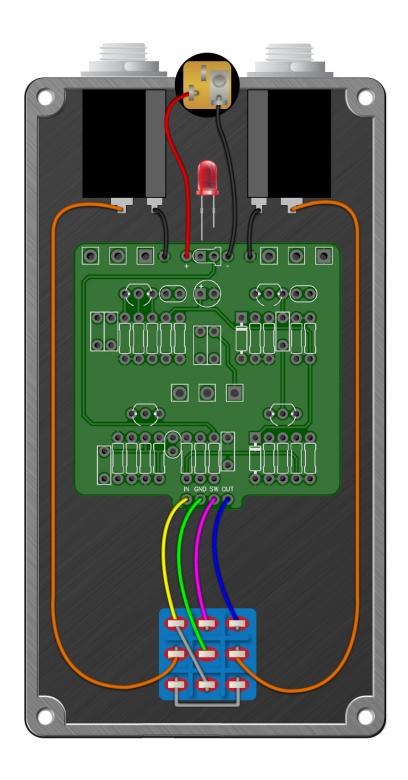
Parts List (Page 2 of 2)

LOCATION	VALUE	TYPE	NOTES
D1	OA90	Germanium diode	
D2	OA90	Germanium diode	
D100	1N5817	Schottky diode, DO-41	
2.00	1110011	containty areas, 20 11	
Q1	2SC828	BJT transistor, NPN TO-92	
Q1 Q2 Q3 Q4 Q5	2SC828	BJT transistor, NPN TO-92	
03	2SC828	BJT transistor, NPN TO-92	
04	2SC828	BJT transistor, NPN TO-92	
Q-1	2SC828	BJT transistor, NPN TO-92	
Q6	2SC828	BJT transistor, NPN TO-92	
QU	200020		
BALANCE	B50K	16mm right-angle PCB mount pot	
EXPANDER	B50K	16mm right-angle PCB mount pot	
LAFANDLIX	DOOK	Torrim right-angle F CB mount pot	
TONESW		Toggle switch, SPDT	2-position (ON/ON)
IOINESVV		Toggie Switch, SEDT	2-position (ON/ON)
TRIM	10K	Trim potentiometer	10K, 3362-style
I KIIVI	IUN	Trim potentiometer	TUK, 3302-Style
			+
			1





Wiring Diagram





Drill Template

125B Enclosure

