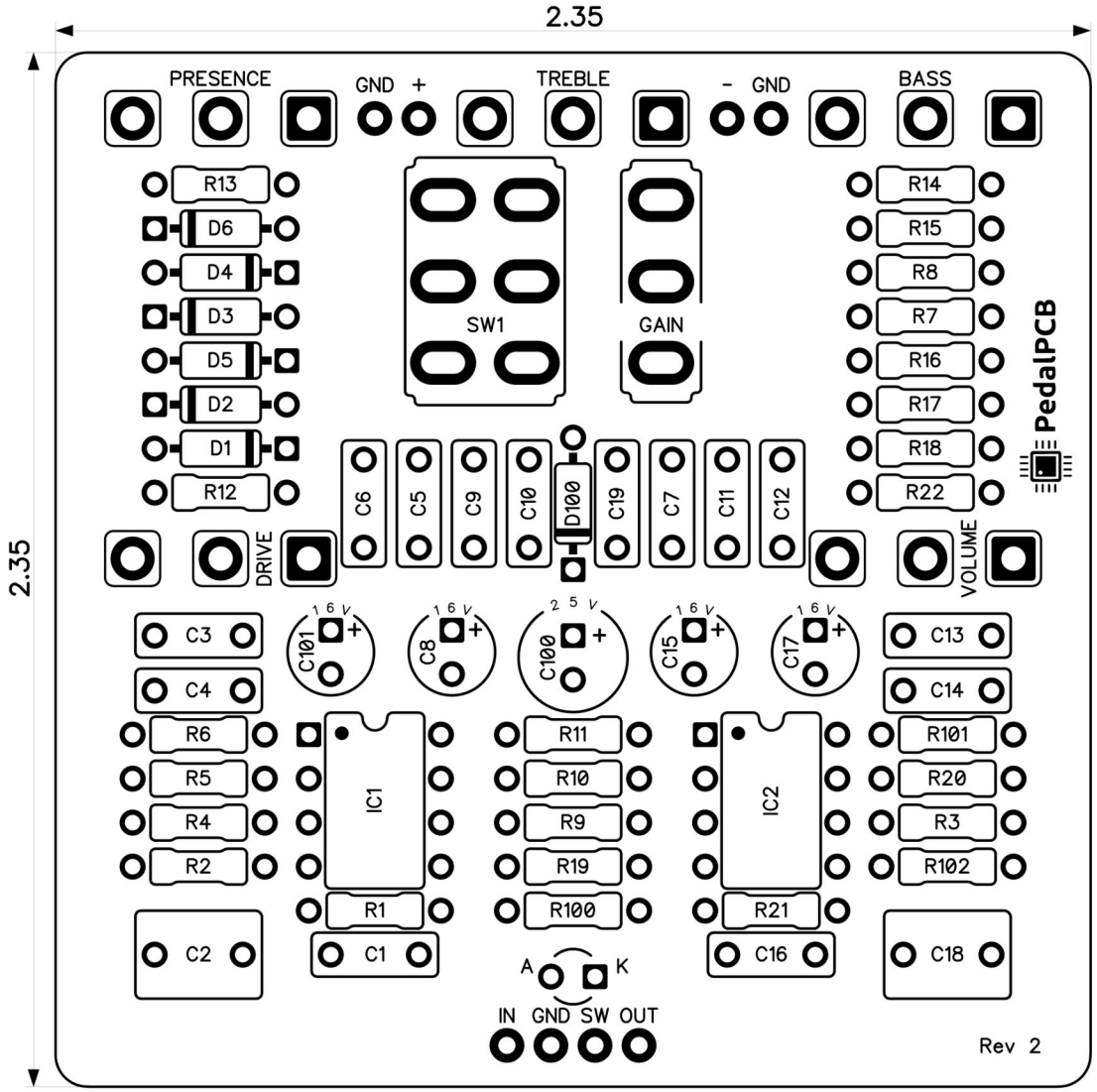
Parthenon Overdrive

Revised 8/16/23



CONTROLS AND FEATURES

- **Bass**
- **Treble**
- **Presence**
- **Volume**
- **Drive**
- **Gain (Toggle switch)**
- **Voice (Toggle switch)**

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Parthenon Overdrive

Parts List (Page 1 of 2)

LOCATION	VALUE	TYPE	NOTES
R1	1K	Resistor, 1/4W	
R2	1M	Resistor, 1/4W	
R3	1M	Resistor, 1/4W	
R4	27K	Resistor, 1/4W	
R5	33K	Resistor, 1/4W	
R6	47K	Resistor, 1/4W	
R7	1M	Resistor, 1/4W	
R8	1M	Resistor, 1/4W	
R9	10K	Resistor, 1/4W	
R10	220K	Resistor, 1/4W	
R11	6K8	Resistor, 1/4W	
R12	1K	Resistor, 1/4W	
R13	6K8	Resistor, 1/4W	
R14	100K	Resistor, 1/4W	
R15	10K	Resistor, 1/4W	
R16	220K	Resistor, 1/4W	
R17	390K	Resistor, 1/4W	
R18	68K	Resistor, 1/4W	
R19	1M	Resistor, 1/4W	
R20	100K	Resistor, 1/4W	
R21	4K7	Resistor, 1/4W	
R22	1K	Resistor, 1/4W	
R100	4K7	Resistor, 1/4W	
R101	10K	Resistor, 1/4W	
R102	10K	Resistor, 1/4W	
C1	47p	Ceramic capacitor	
C2	1u	Film capacitor, 7.2 x 5.0mm	
C3	47p	Ceramic capacitor	
C4	10n	Film capacitor, 7.2 x 2.5mm	
C5	10n	Film capacitor, 7.2 x 2.5mm	
C6	100n	Film capacitor, 7.2 x 2.5mm	
C7	100p	Ceramic capacitor	
C8	4u7	Electrolytic capacitor, 5mm	
C9	10n	Film capacitor, 7.2 x 2.5mm	
C10	10n	Film capacitor, 7.2 x 2.5mm	
C11	470p	Ceramic capacitor	
C12	4n7	Film capacitor, 7.2 x 2.5mm	
C13	330p	Ceramic capacitor	
C14	3n3	Film capacitor, 7.2 x 2.5mm	
C15	4u7	Electrolytic capacitor, 5mm	
C16	47p	Ceramic capacitor	
C17	1u	Film capacitor, 7.2 x 5.0mm	
C18	1u	Film capacitor, 7.2 x 5.0mm	
C19	100n	Film capacitor, 7.2 x 2.5mm	
C100	100u	Electrolytic capacitor, 5mm	
C101	10u	Electrolytic capacitor, 5mm	
		Continued on next page…	

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Parthenon Overdrive

Parts List (Page 2 of 2)

LOCATION	VALUE	TYPE	NOTES
D1	1N4148	Signal diode, DO-35	
D2	1N4148	Signal diode, DO-35	
D3	1N4148	Signal diode, DO-35	
D4	1N4148	Signal diode, DO-35	
D5	1N4148	Signal diode, DO-35	
D6	1N4148	Signal diode, DO-35	
D100	1N5817	Schottky diode, DO-41	
IC1	JRC4580	Dual op-amp, DIP8	
IC2	JRC4580	Dual op-amp, DIP8	
BASS	B1M	16mm right-angle PCB mount pot	
TREBLE	B25K	16mm right-angle PCB mount pot	
PRESENCE	B50K	16mm right-angle PCB mount pot	
VOLUME	A100K	16mm right-angle PCB mount pot	
DRIVE	B100K	16mm right-angle PCB mount pot	
VOICE	DPDT	Toggle switch, DPDT *** Type-2	3-position (ON/ON/ON)
GAIN	SPDT	Toggle switch, SPDT	3-position (ON/OFF/ON)

Voice toggle switch must be **Type-2** DPDT **ON/ON/ON**

STOMPBOXPARTS.COM (Long Bat)
https://stompboxparts.com/switches/dpdt-toggle-switch-on-on-on-solder-lug-long-bat/

STOMPBOXPARTS.COM (Short Bat)
https://stompboxparts.com/switches/dpdt-toggle-switch-on-on-on-solder-lug-short-bat/

100-DP6-T100B1M1QE (Long Bat)
https://lovemyswitches.com/taiway-dpdt-on-on-on-switch-solder-lug-long-shaft/

100-DP6-T200B1M1QE (Short Bat)
https://lovemyswitches.com/taiway-dpdt-on-on-on-switch-solder-lug-short-shaft/

1MD6T1B1C0M1QE (Long Bat)
http://smallbear-electronics.mybigcommerce.com/dpdt-on-on-on-solder-term/

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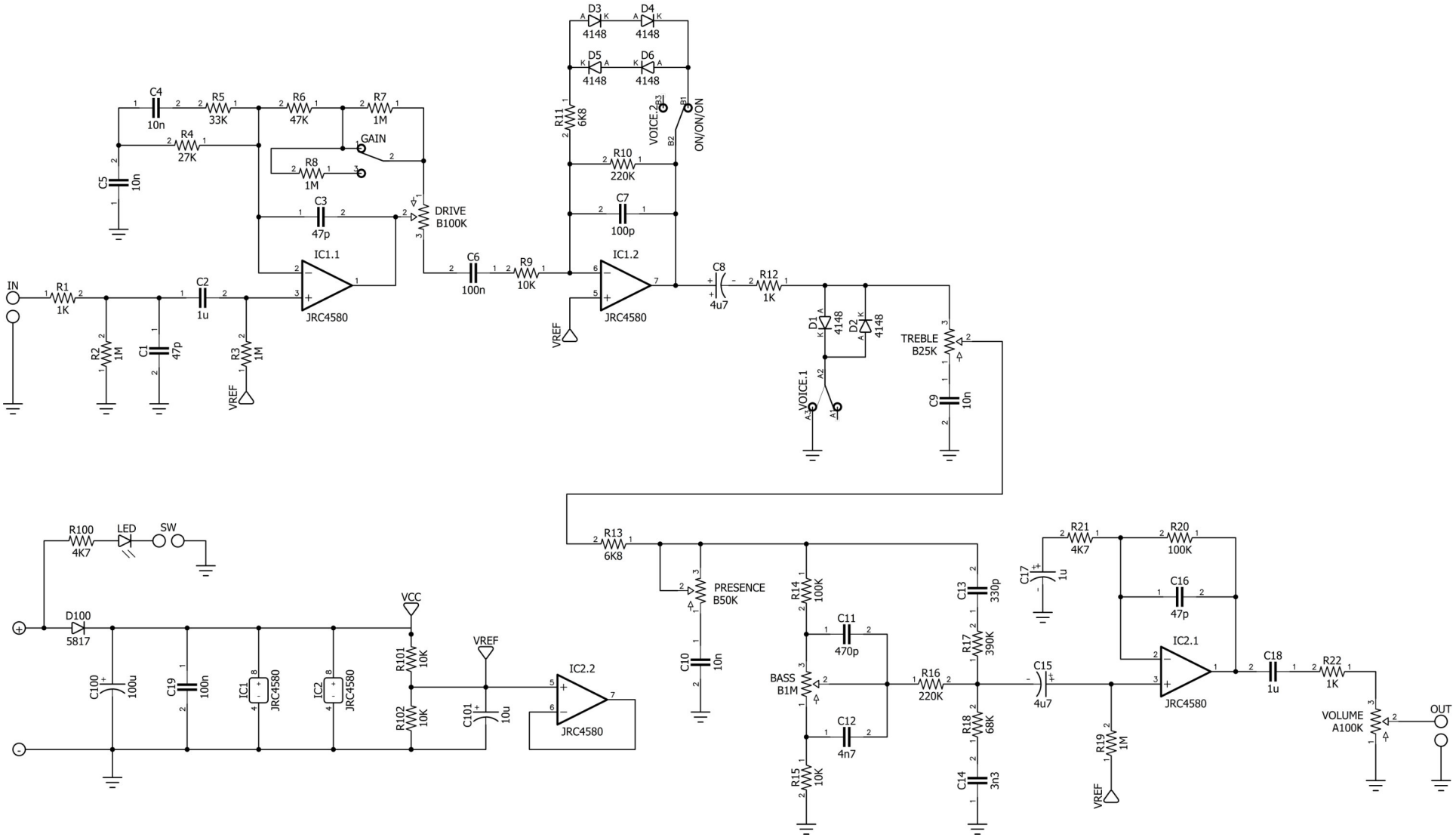
Schematic Diagram



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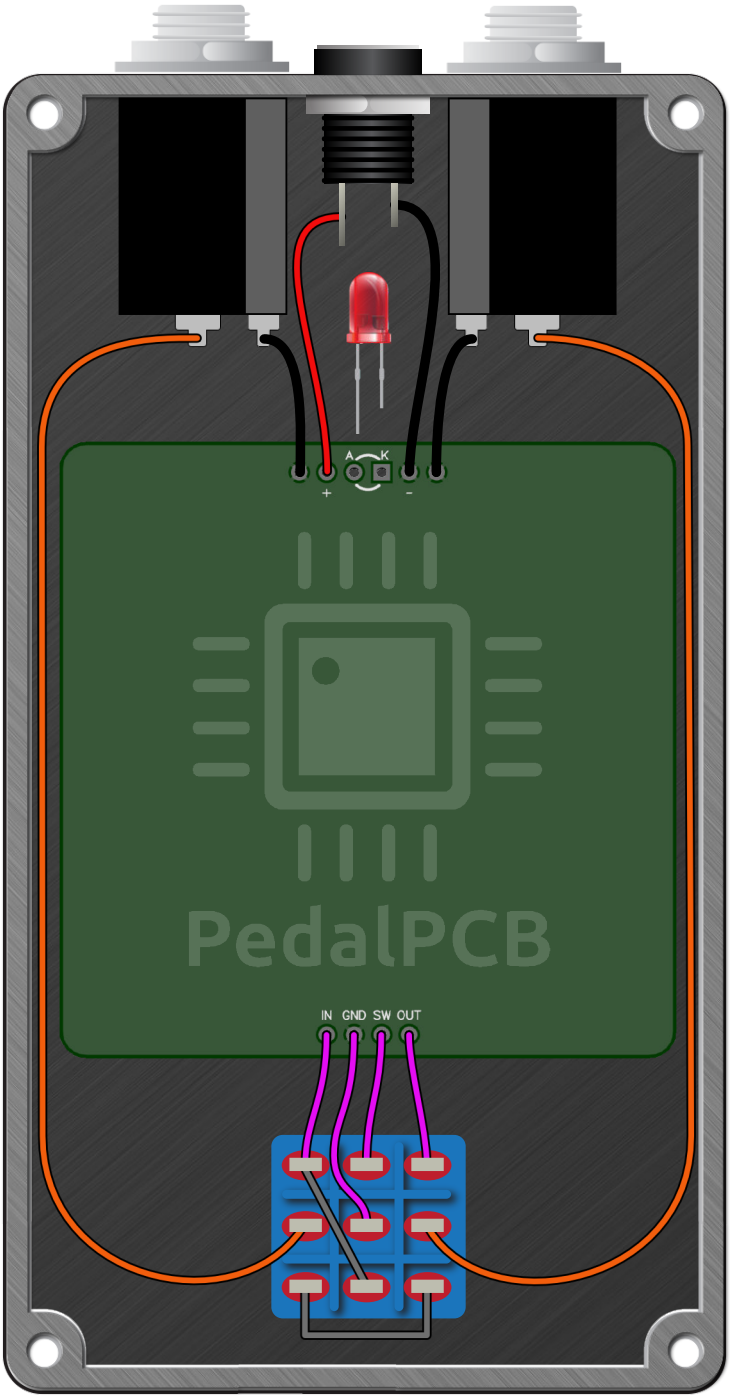
Wiring Diagram



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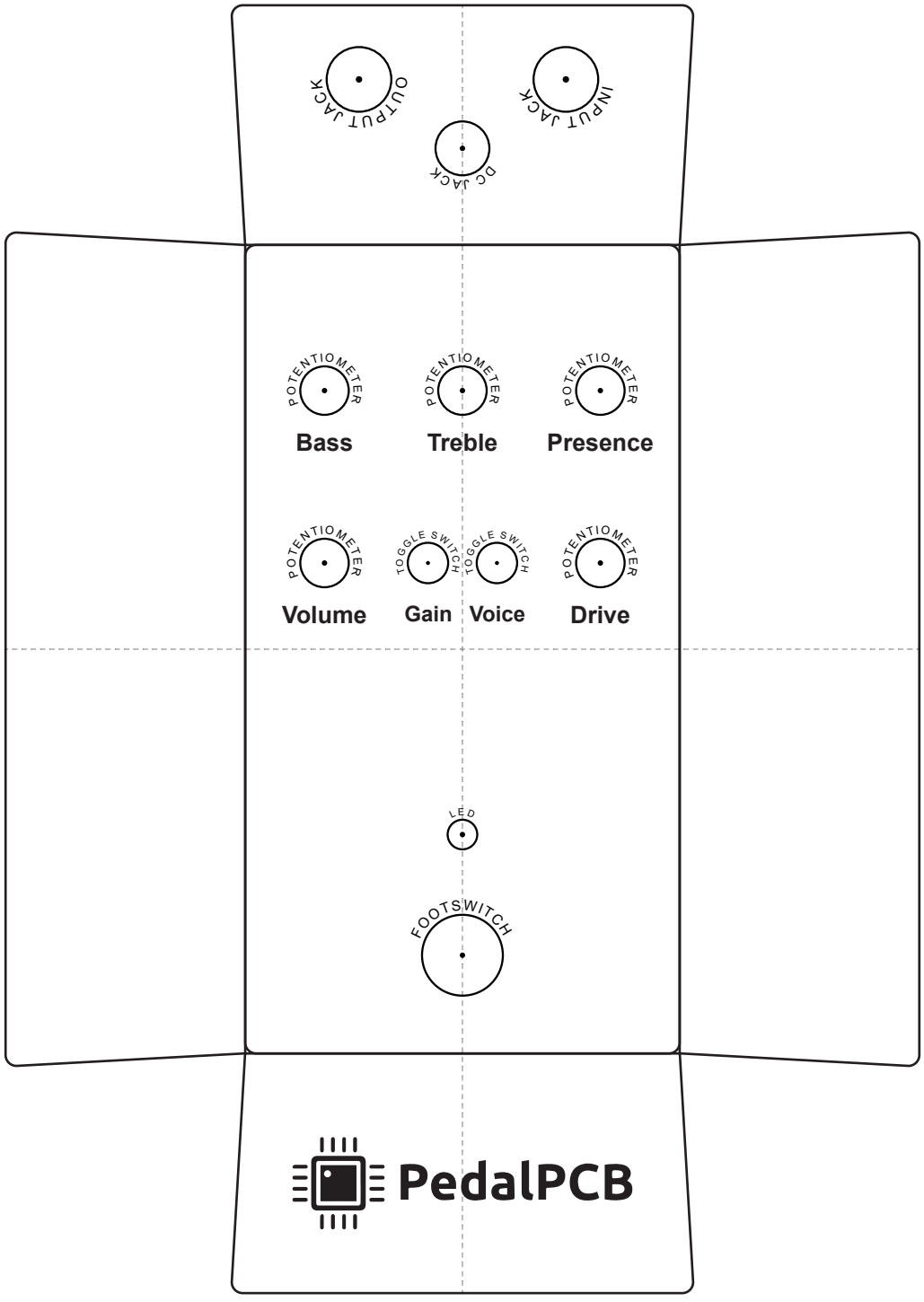
Drill Template

125B Enclosure



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