PedalPCB
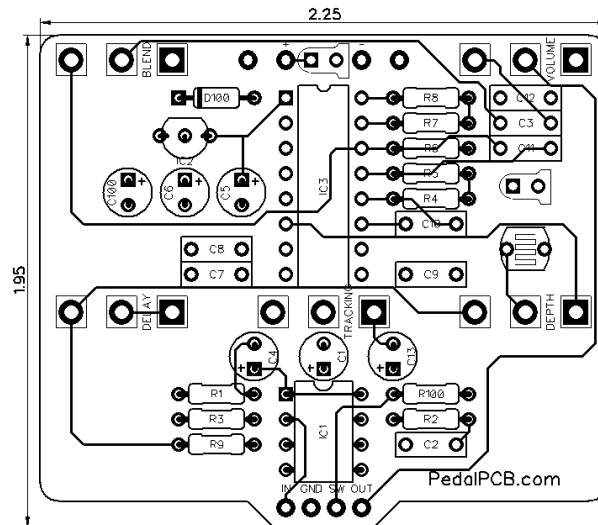
Chalumeau

Revision 03.05.20

Introduction

The Chalumeau is an envelope controlled Vibrato, Chorus, Wow, and Flutter generator.

Controls

- **Delay**
- **Depth**
- **Blend**
- **Tracking**
- **Feedback**

Chalumeau

Parts List

RESISTORS

R1	100
R2	100K
R3	1K
R4	22K
R5	10K
R6	22K
R7	22K
R8	10K
R9	1K
R100	4K7

CAPACITORS

C1	47u
C2	10n
C3	100n
C4	47u
C5	47u
C6	47u
C7	100n
C8	100n
C9	100n
C10	100n
C11	1n
C12	1n
C13	10u
C100	47u

POTENTIOMETERS

DELAY	B100K
DEPTH	B100K
BLEND	B25K
TRACKING	B1K
VOLUME	B100K

OPTICAL

LDR1	LDR

INTEGRATED CIRCUITS

IC1	LM386
IC2	L78L05
IC3	PT2399

DIODES

D1	LED 5mm Yellow
D100	1N5817

Common offboard components (enclosure, footswitch, jacks, etc) are not listed

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IC3 PT2399

OUT

VOLUME B100K

C3 100n

BLEND B25K

C12 1n

C11 1n

R6 22K

R5 10K

R4 22K

C10 100n

C9 100n

R7 22K

R8 10K

LPF1-IN	16		1	VCC
LPF1-OUT	15		2	REF
LPF2-OUT	14		3	AGND
LPF2-IN	13		4	DGND
OP2-OUT	12		5	CLK_O
OP2-IN	11		6	VCO
OP1-IN	10		7	CC1
OP1-OUT	9		8	CC0

+5V

C6 47u

C7 100n

C8 100n

DELAY B100K

DEPTH B100K

R9 1K

LDR1

R2 100K

C2 10n

C13 10n

TRACKING B1K

R3 1K

D1

+5V

C5 47u

IC2 L78L05
VI VO

SW

R100 4K7

LED

D100 1N5817

VCC

C100 47u

C1 47u

IC1 LM386

C4 47u

R1 100

VCC

IN

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Wiring Diagram

IN GND SW OUT

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Chalumeau
Drill Template
125B enclosure with top mounted jacks

OUTPUT JACK

DC JACK

INPUT JACK

POTENTIOMETER

LED

POTENTIOMETER

POTENTIOMETER

POTENTIOMETER

POTENTIOMETER

FOOTSWITCH

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