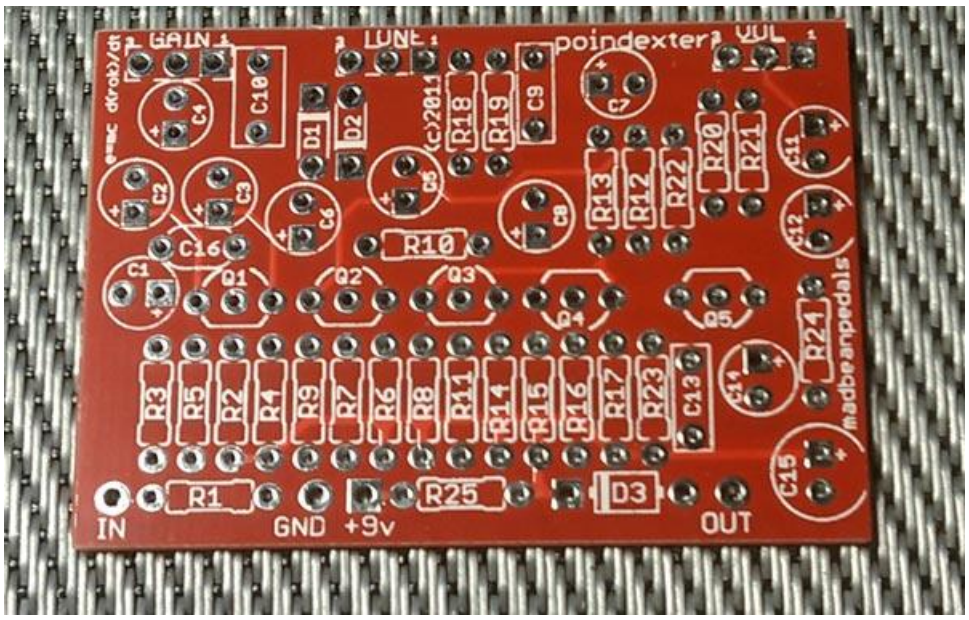
http://www.madbeanpedals.com PRESENTS

POINDEXTER



FX TYPE: OCTAVE FUZZ

PCB artwork ©2011 madbeanpedals
Release date: 04.02.11

The controls are as follows

GAIN: This controls the overall fuzz amount. At maximum, it will produce a fairly insane amount of fuzz. At minimum, you have less fuzz, but the octave portion of the circuit is still very noticeable.
TONE: A simple treble bleed type filter.
VOL: The overall output.

Notes

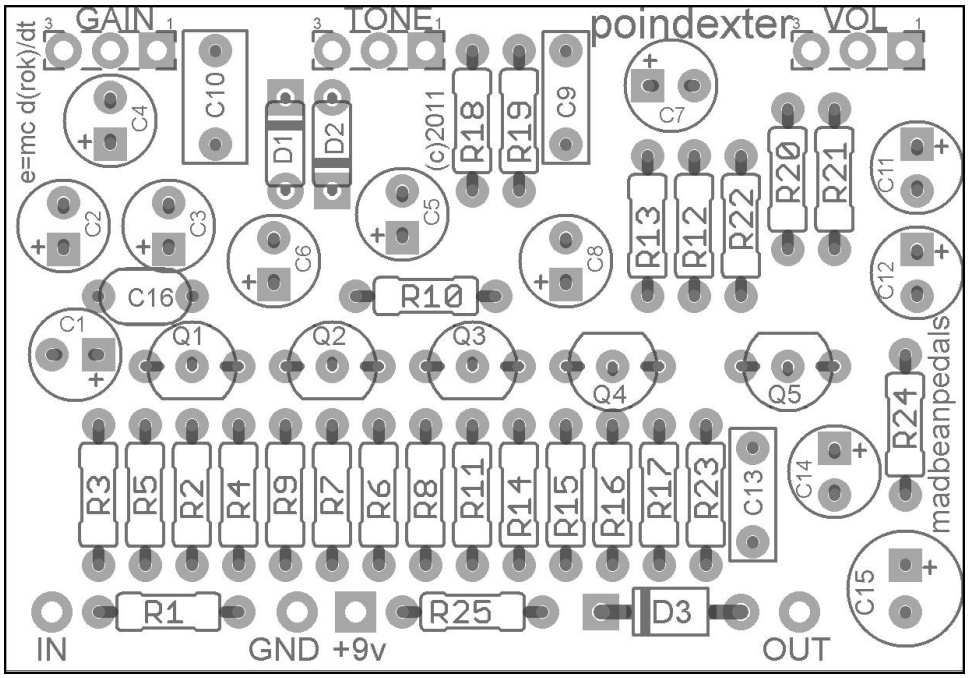
There is a small error in the layout of the PCB. C11 needs to be reversed on the diagram below. The "+" side should face C12, and the "-" should face the volume control.

You can use any number of germanium diodes for D1, D2. Suggestions are 1n34a, 1n270, or 1N60. Alternatively, you can try BAT41 for similar results.

C16 is listed as 10pF. You can use higher values to reduce noise. A 47pF or 100pF will work. Note that higher values will bleed off more treble at the input of the circuit.

This is a very high gain effect. If noise is a problem, use shielded wire on the inputs and outputs. Also, this effect does not like certain types of room lighting, I've found. I had significant noise on the breadboard with a halogen work light on. The noise disappeared once the light was turned off, FWIW.

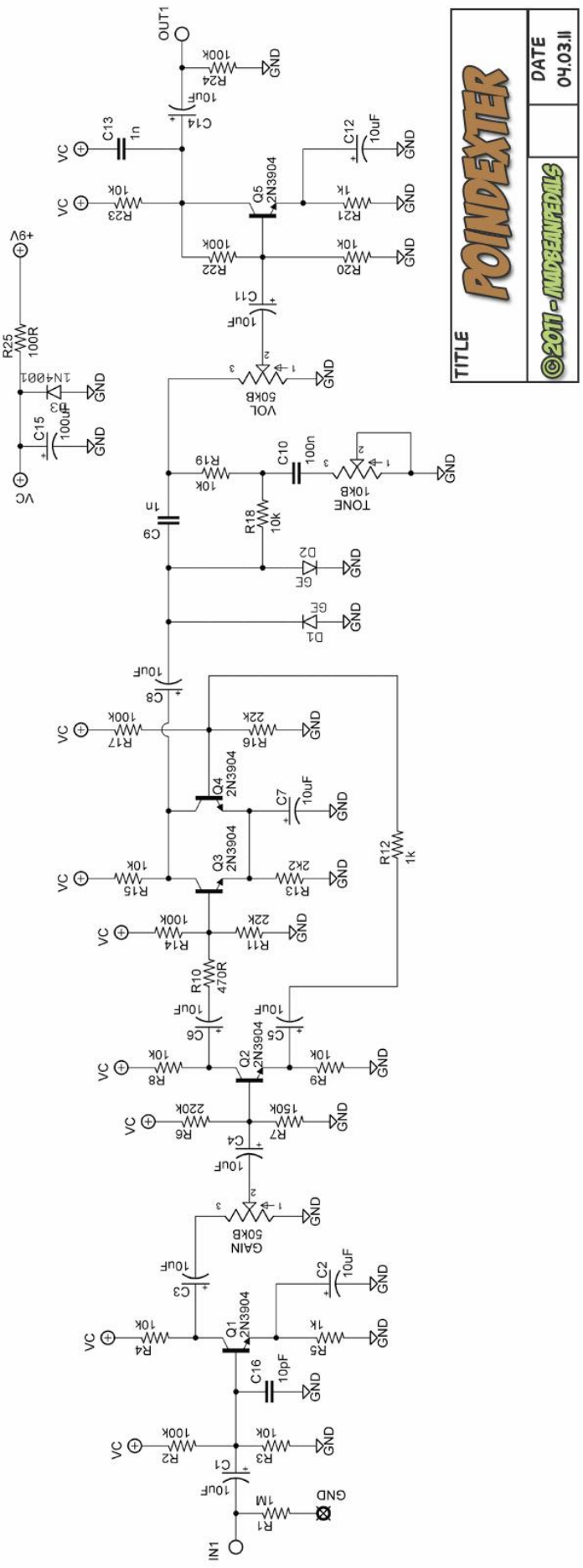
MANUFACTURED VERSION



2.05”W x 1.425”H

This version will fit in a 1590B. Remember to reverse C11!!

Resistors		Resistors		Caps		Diodes	
R1	1M	R17	100k	C1	10uF	D1 - D2	1n34a
R2	100k	R18	10k	C2	10uF	D3	1N4001
R3	10k	R19	10k	C3	10uF	**Transistors**	
R4	10k	R20	10k	C4	10uF	Q1 - Q4	2N3904
R5	1k	R21	1k	C5	10uF	**Pots**	
R6	220k	R22	100k	C6	10uF	TONE	10kB
R7	150k	R23	10k	C7	10uF	VOL	50kB
R8	10k	R24	100k	C8	10uF	GAIN	50kB
R9	10k	R25	100R	C9	1n		
R10	470R			C10	100n		
R11	22k			C11	10uF		
R12	1k			C12	10uF		
R13	2k2			C13	1n		
R14	100k			C14	10uF		
R15	10k			C15	100uF		
R16	22k			C16	10pF		


TITLE
FOINDEXTER
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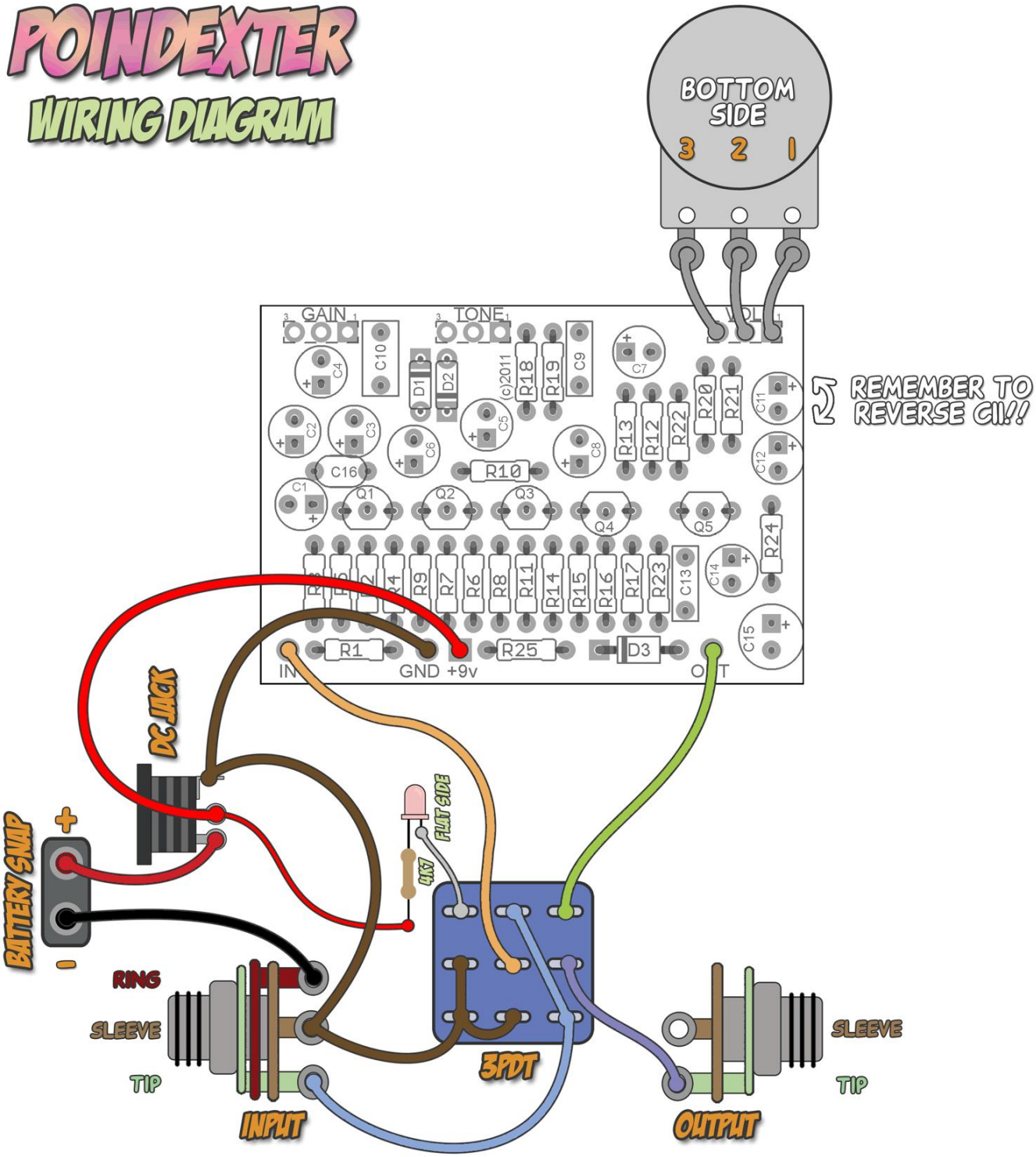
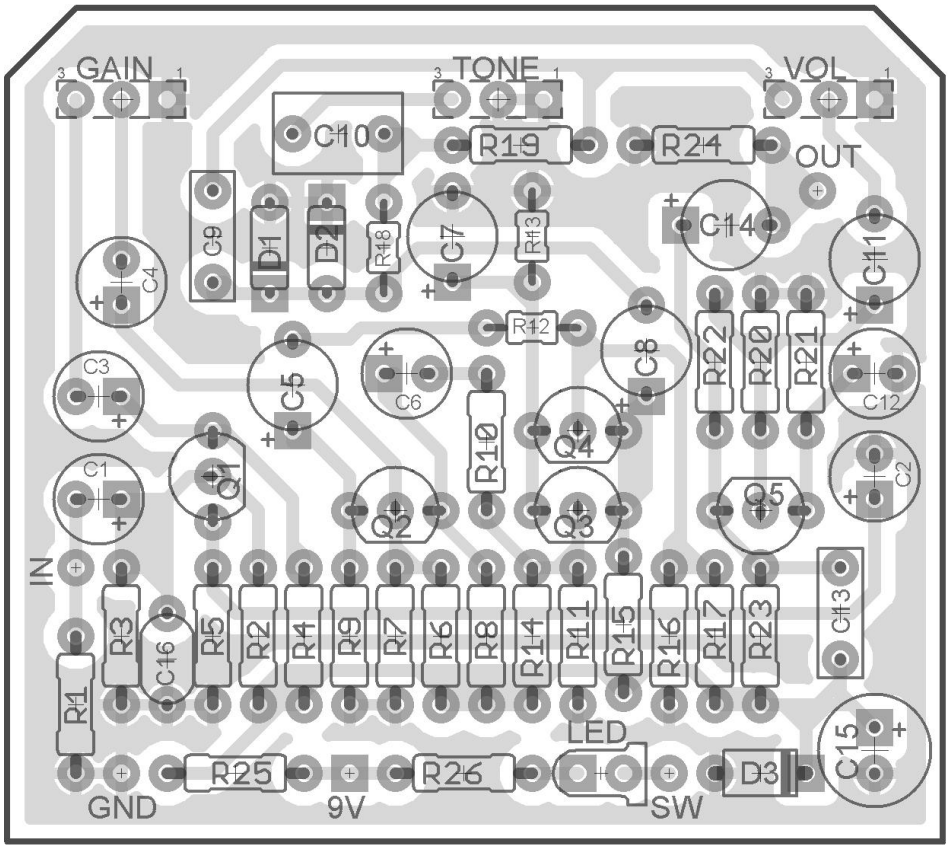
DATE
04.03.11
IN1
OUT1
GND
VC
+9V
R1 1M
C1 10uF
R2 100K
R3 10K
C16 10pF
Q1 2N3904
R4 10K
R5 1K
C2 10uF
C3 10uF
GAIN 50KB
C4 10uF
R6 220K
R7 150K
Q2 2N3904
R8 10K
R9 10K
C5 10uF
C6 10uF
R10 470R
R11 22K
R14 100K
Q3 2N3904
R13 2K2
R15 10K
Q4 2N3904
C7 10uF
R16 22K
R17 100K
C8 10uF
R12 1K
D1 GE
D2 GE
C9 1n
R18 10k
R19 10K
C10 100n
TONE 10KB
VOL 50KB
C11 10uF
R22 100K
R20 10K
R21 1K
Q5 2N3904
C12 10uF
R23 10K
C13 1n
C14 10uF
R24 100K
R25 100R
1N4001
C15 100uF
C17 100uF

POINDEXTER
WIRING DIAGRAM



SINGLE SIDED VERSION FOR ETCHING



R26 is the CLR for your LED. Use 4k7 or similar. Note that C11 is correct in this layout and does not need to be reversed.

2.06” W x 1.84” H (including borders)