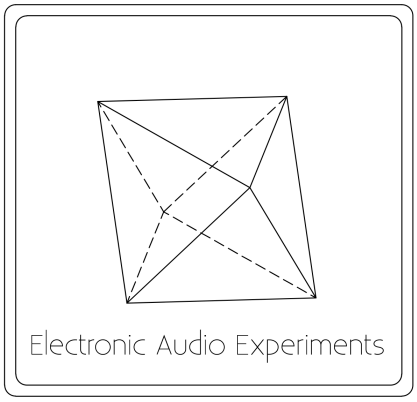
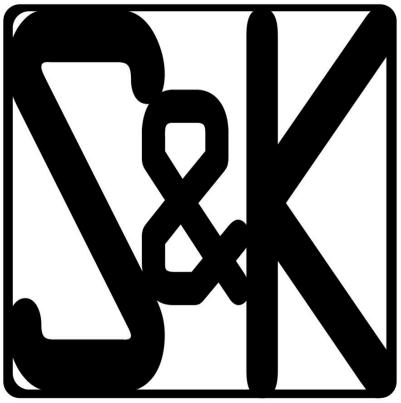




Electronic Audio Experiments and S&K

DOD FX10 BiFet PCB Build Document

Introduction

The DOD FX10 Bi-FET Preamp is one of dozens of interesting designs by DOD, which, until recently, had existed in relative obscurity. Many DOD pedals are still in use today, but the poor switching system, old PCBs, and non-standard power supply are a hindrance for modern players.

The FX10 is an op-amp based boost with a large volume boost and an active tone control that can boost treble or bass. This PCB is a near-exact recreation of the original circuit, with the only changes being the use of true bypass switching, the addition of a pulldown resistor at the input, and a slight increase in power supply filtering.

If you have any questions you may contact us at electronicaudioexperiments@gmail.com and/or scot.debockler@gmail.com.

Happy building!

John & Scot

Assembly Notes

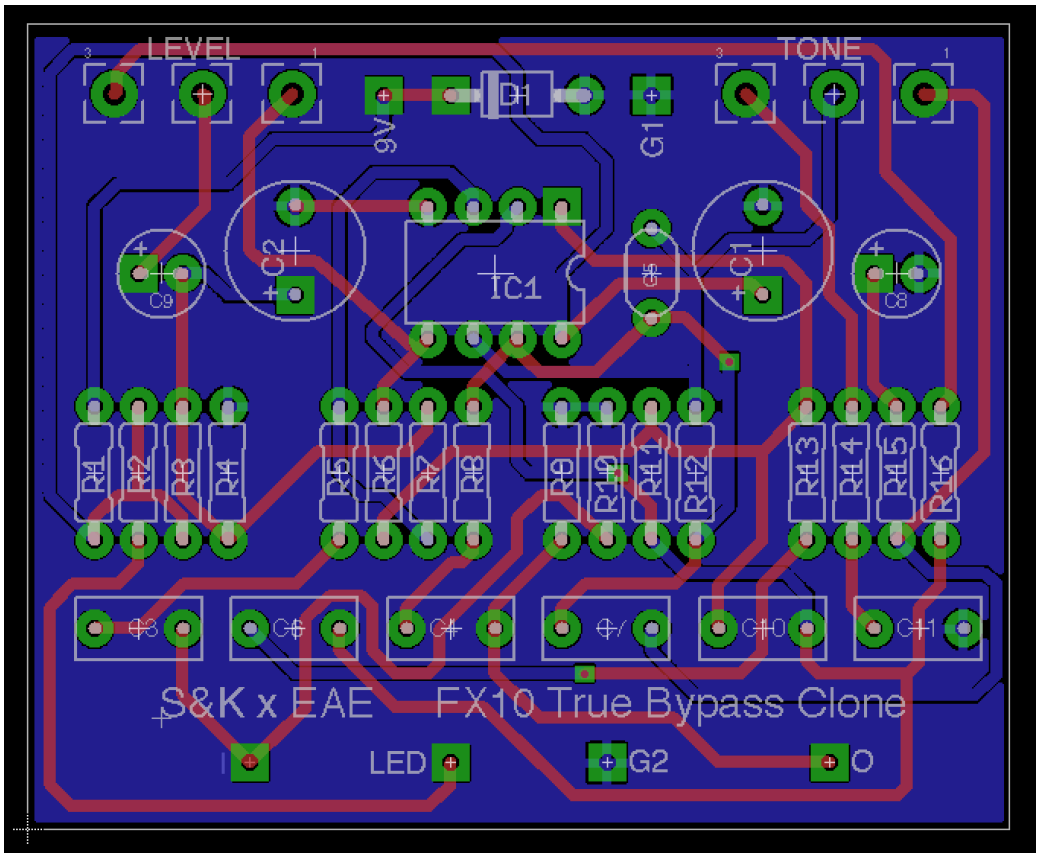
- We recommend 16mm PCB-mount pots, which should be oriented on the underside of the board
- A drilling template is provided for a 125B enclosure, use at your own risk
- If board-mounted pots are not used, it is strongly recommended that the board be glued to a standoff such as a ceramic resistor or plastic washers rather than left floating in the enclosure
- A DIP8 socket is recommended if you wish to test out different op amps
- R2 may be adjusted to account for LEDs of varying color and intensity

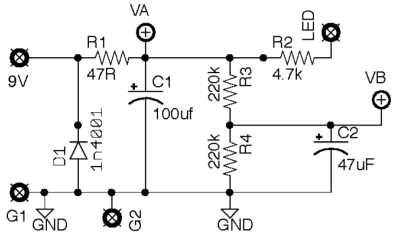
Bill of Materials

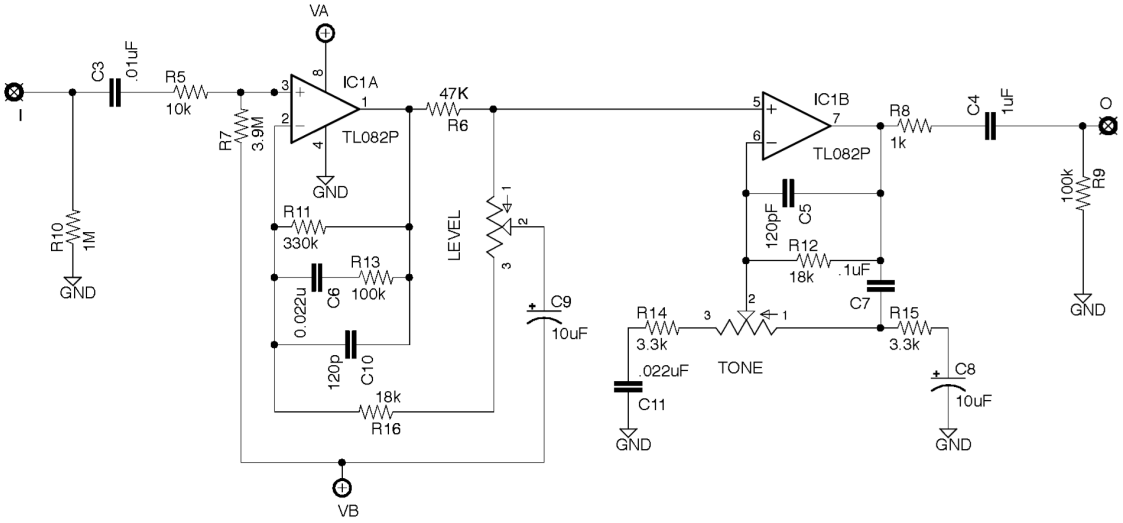
RESISTORS			CAPACITORS		
Value	**Qty**	**Part #**	**Value**	**Qty**	**Part #**
100K	2	R9, R13	0.01uF	1	C3
10K	1	R5	0.022uF	1	C11
18K	2	R12, R16	0.1uF	1	C7
1M	1	R10	0.022uF	1	C6
1K	1	R8	100uf	1	C1
220K	2	R3, R4	10uF	2	C8, C9
3.3K	2	R14, R15	120pF	1	C10
3.9M	1	R7	120pF	1	C5
330K	1	R11	47uF	1	C2
4.7K*	1	R2	1uF	1	C4
47K	1	R6			
47	1	R1			

OTHER					
Value	**Qty**	**Part**	**Value**	**Qty**	**Part**
TL082*	1	IC1	125B	1	Enclosure
1N4001	1	D1	3PDT	1	Bypass
100KB	1	Tone	Knobs	2	-
500KC	1	Level	5MM LED	1	Indicator
¼" Jack	2	In/out	5MM Bezel	1	Indicator
DIP8 Socket	1	IC1 (socket)	DC Jack	1	+9V

* - Indicates that the component can be swapped out as noted above


LEVEL
TONE
9V
D1
G1
IC1
C2
C1
C9
C8
R4
R2
R3
R1
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16
S&K x EAE FX10 True Bypass Clone
I
LED
G2
O


VA
R1
47R
R2
4.7k
LED
9V
C1
100uf
220k
R3
VB
D1
1n4001
220k
R4
C2
47uF
G1
GND
G2
GND


VA
I
C3
.01uF
R5
10k
R7
3.9M
IC1A
TL082P
47K
R6
IC1B
TL082P
R8
1k
C4
1uF
O
R10
1M
GND
R11
330k
R13
100k
C6
0.022u
C10
120p
18k
R16
LEVEL
C9
10uF
120pF
C5
R12
18k
.1uF
C7
R14
3.3k
.022uF
C11
TONE
R15
3.3k
C8
10uF
100k
R9
GND
VB