



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



