

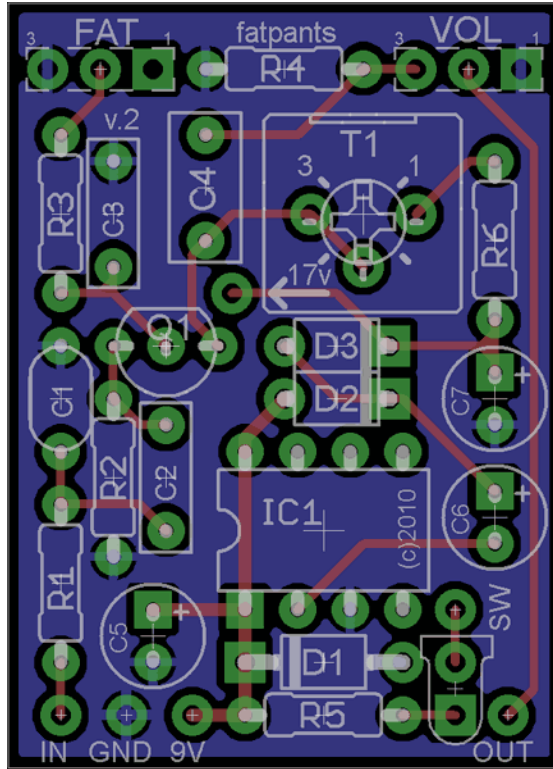
MADBEANPEDALS PRESENTS

FATPANTS

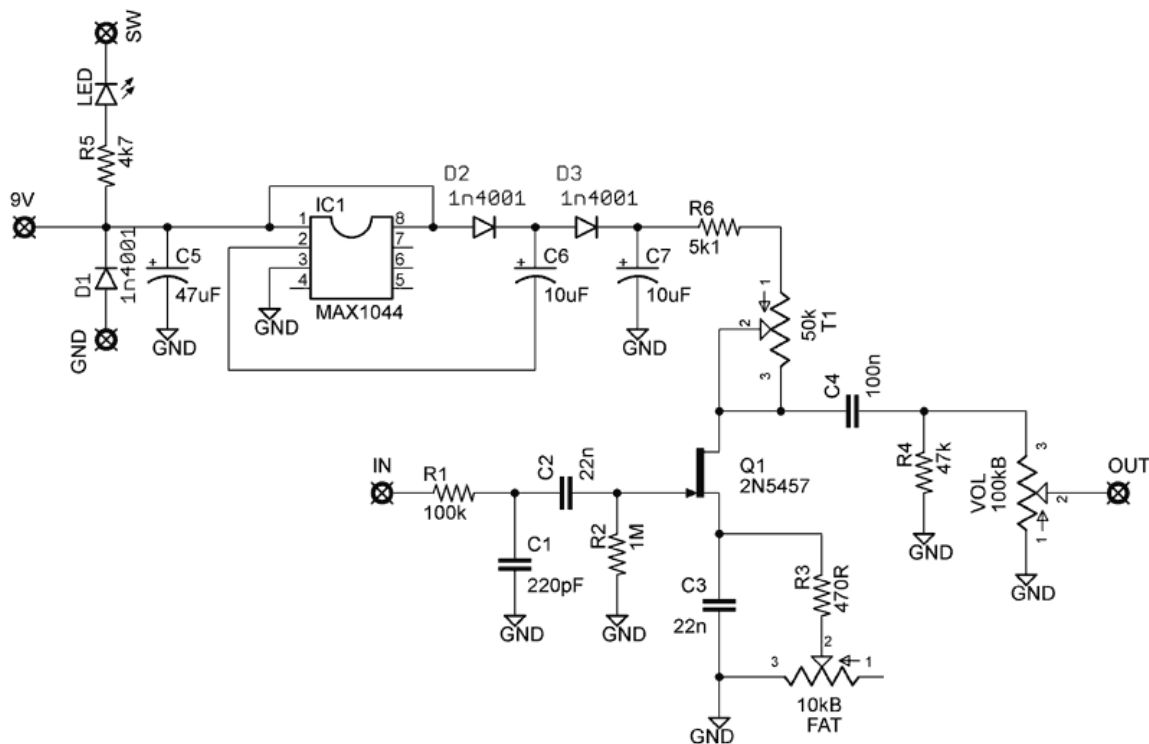
(based on the EchoPlex input)

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Ver.2 09.17.10



Resistors		Diodes	
R1	100k	D1 - D3	1n4001
R2	1M		
R3	470R	IC	
R4	47k	IC1	TC1044
R5	4k7	Transistors	
R6	5k1	Q1	J201
Caps		Pots	
C1	220pF	T1	50k Trim
C2	22n	VOL	100kB
C3	22n	FAT	10kB
C4	100n		
C5	47uF		
C6	10uF		
C7	10uF		



Notes

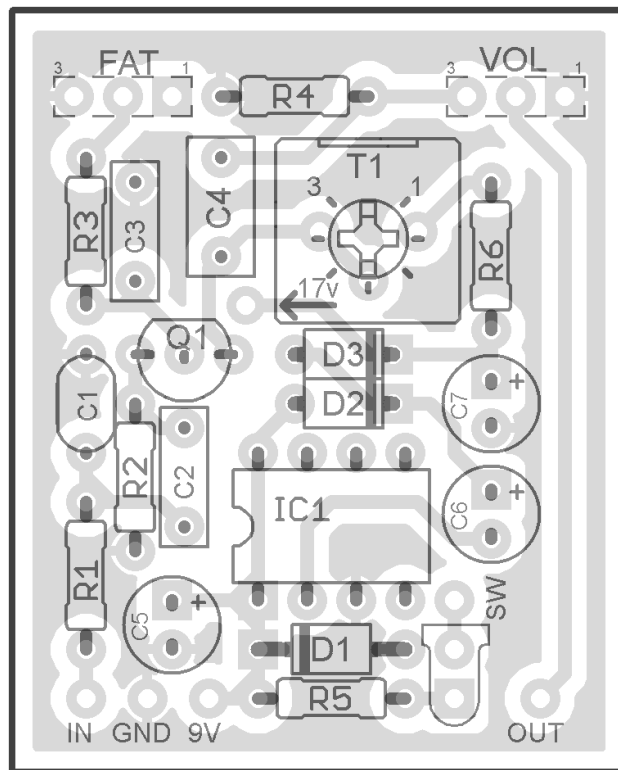
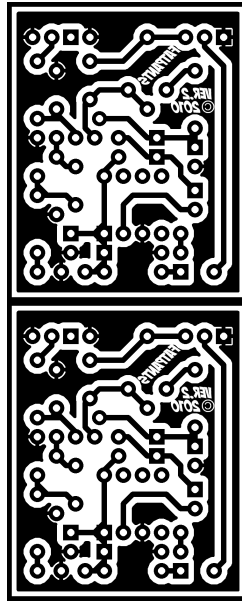
- A TC1044 is recommended, however you may substitute either the MAX1044 or ICL7660SCPA. The TC1044 will take up to 12v input.
- You can also sub 1N5817 for **D2** and **D3** for slightly less voltage drop (i.e. higher output voltage from the charge pump).
- A 2n5457 or similar FET can be subbed for the J201. However, the J201 will most likely have a little more edge and bite to it.
- **T1** allows you to make small adjustments to the drain voltage for biasing purposes. 17k is the default setting for **T1**. Adjust the trimpot for the hottest output you desire.
- Adjusting the “**Fat**” when the effect is on will result in a little ‘wooly’ type noise (similar to the SHO). This is normal.
- You can sub higher values for **C3** if you want a little more low-end out of the effect. A 47n or 68n is suggested. Or, you could use a switch to add another cap in parallel to C3 (untested).
- There is an extra pad on the board that you can use as a ~17v tap. This is helpful if you are building the FatPants in the same enclosure as another effect and want to run the second effect at ~17v.

Parts

- Xicon General or Hi-Temp radial electrolytic caps, 25v
- Xicon carbon or metal film resistors, 1/4W
- Panasonic ECQ-V or WIMA box caps, 25v or above
- Alpha 16mm potentiometers

SINGLE SIDED VERSION – FOR ETCHING

1.267" x1.567" (w / borders)



Visit <http://www.madbeanpedals.com/learn/index.html> for helpful wiring diagrams and drilling templates!
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