

FaceMaster

Based on the Dallas-Arbiter Fuzz Face™

Bill of materials

	Resistors	Diode
R1	100k	D1 1n4001
R2	33k	
R3	470R	Transistor
R4	200R	U1 Germanium Transistor
R5	1 Meg	U2 Germanium Transistor
	Capacitors	Potentiometer
C1	100nf (104)	Volume 500ka Log
C2	10nf (103)	Tone 100kb Lin
C3	20uf	Fuzz 1ka Log
C4	10uf	Bias 20k (trimmer)
C5	100uf	
C6	10uf	IC
C7	100nf (104)	IC1 Charge Pump (TC1044scpa)

1590a

The board spacing will fit a 1590a enclosure. You can mount 9mm pots directly to the board.

Gain Pot

The original fuzz face used a 1kb pot. This causes the fuzz effect to 'bunch up' towards the end of the dial turn. Use a reverse log pot ("C") to avoid this. Also, a 2k pot may be better suited to increase the fuzz range (more fuzz).

Tone mod

Changing the values of c1 and c2 will change the frequency range of the Tone Control. Also note c3 will affect the bass output of the circuit as well (increase for more bass, decrease for less). I've found the best combination for this set up is as listed above but you increase c1 and decrease c2 for a wider range or vice versa for a narrower tone range.

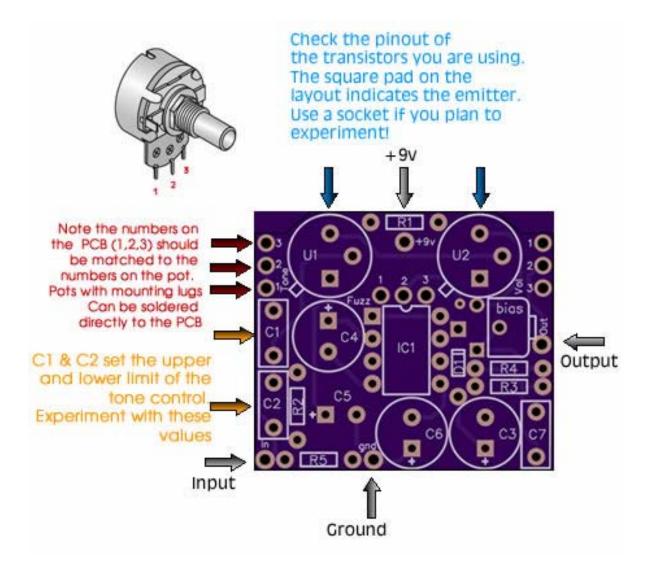
Bias Trimmer

Experiment with the value of this trimmer. Depending on your germanium transistors used a 50k trimmer may be better suited. You can also mount this as a pot on the front of your pedal for an external bias control

Charge Pump

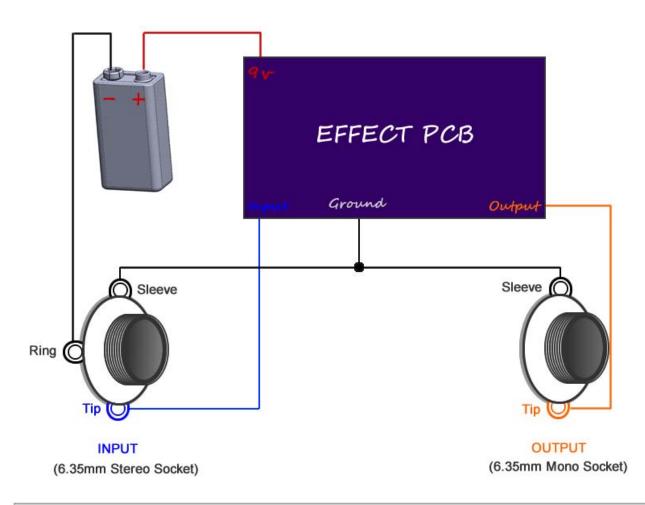
This layout includes the 9v power inverter and associated components for your convenience.

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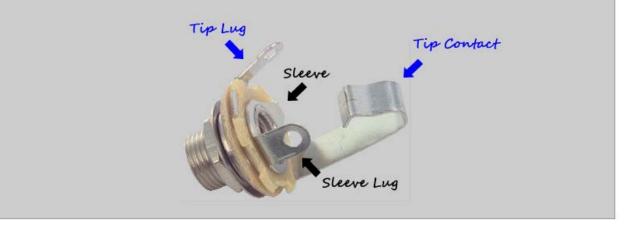
Testing Your Effect

Using aligator clips or soldering directly, wire your effect as in the following...



Input and Output Sockets

Pay close attention to the lugs of your sockets. Look at them side on so that you can distinguish the sockets individual layers. For instance the tip lug is connected to tip contact. The stereo jack looks the same as the socket below except it has an extra lug and contact for "Ring".



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Boxing up your effect

Watch my offboard wiring tutorial for information on wiring this effect up inside an enclosure (with LED, stompswitch, etc)

http://www.youtube.com/watch?v=z6fpwU8RY_0