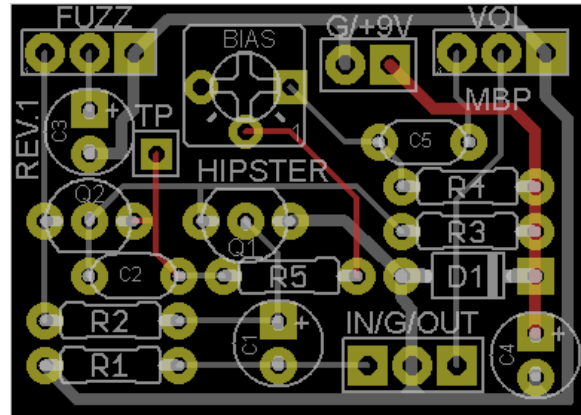
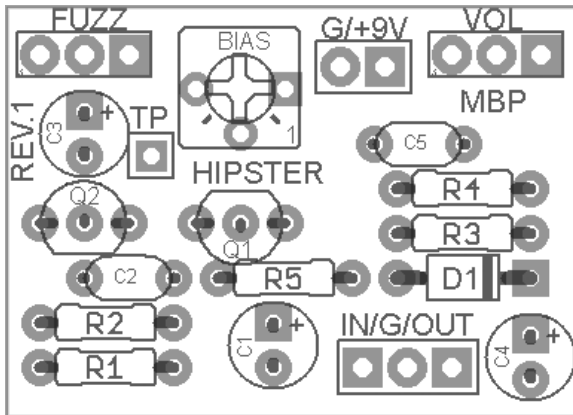


HIPSTER FUZZ (UPDATED 03.02.13)

Baby Board / 1590A project

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1.29"W x 0.925"H – rev.1



Resistors		Caps		Diodes	
R1	1M	C1	2u2	D1	1N4001
R2	100k	C2	10pF	Transistors	
R3	33k	C3	22uF	Q1, Q2	Si
R4	470R	C4	47uF	Trimpot	
R5	1k	C5	10n	Bias	25k
				Pots	
				FUZZ	1kB
				VOL	500kA

The **Hipster** is based directly on the classic Fuzz Face [™] and utilizes NPN transistors with a negative ground configuration.

Fuzz – Sets the total amount of fuzz

Vol – Sets the output volume

Notes

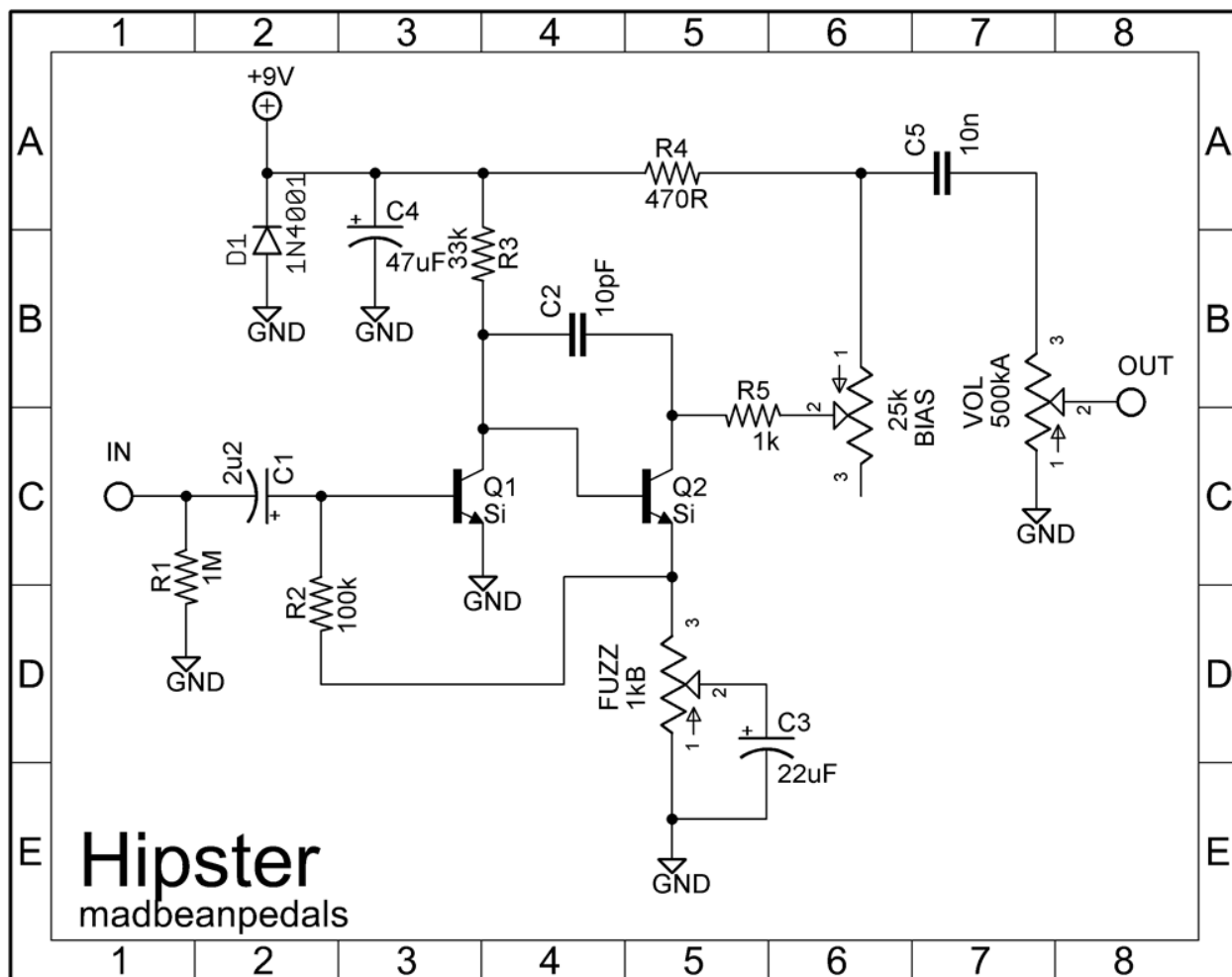
There are a variety of transistors that can be used for **Q1** and **Q2**. Suggestions are: BC108, BC109, 2n3904, BC183 (B, C) and/or BC550. The pinout for the Hipster is C-B-E (as in the 2n3904). Make sure you know the pinout of the transistors you are using before soldering them to the PCB---you may need to twist the leads around.

R1 is optional, and may not be needed.

C2 can be increased if oscillation occurs at maximum fuzz. Incremental increases in value will result in incremental decreases in treble. Suggested alternate values are 22pF, 47pF and 100pF.

A 1kC (reverse audio) pot can increase the range of the fuzz control and prevent it from “bunching up” at the very extreme.

Adjust the **BIAS** trimpot until you read approximately 4.5v on the collector of **Q2**. Note that 3.5v – 5.5v is the nominal range so feel free to experiment with your bias setting.

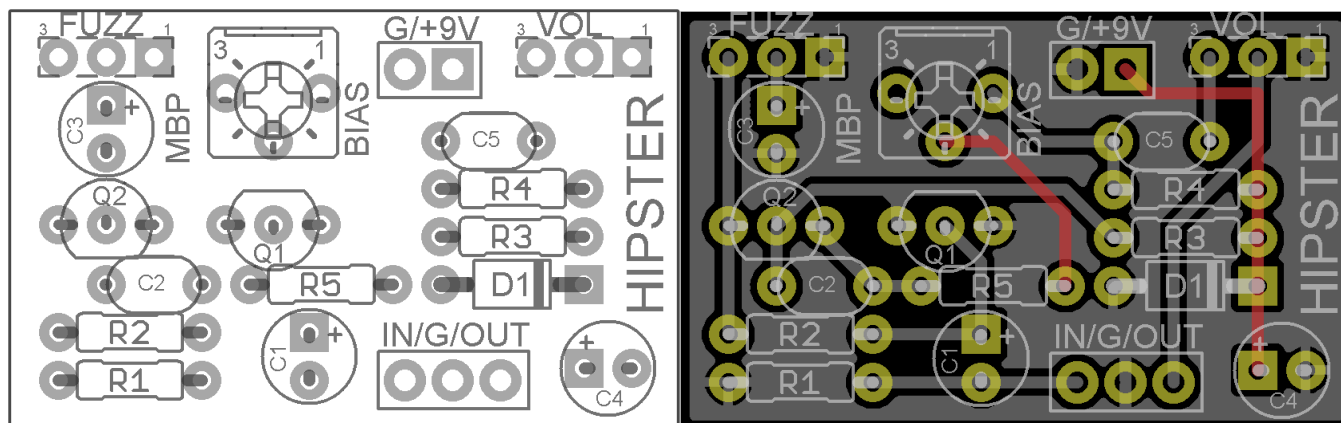


Rev.1 notes: This revision was done to decrease the PCB width slightly in order to make it fit more easily in the 1590A. There are no changes to the circuit itself other than some adjustments to the parts layout.

The “TP” pad was also added. TP stands for “test point” and is connected to the collector of Q2. You can use this pad as a convenience to measure the collector voltage when setting the Bias trimpot for Q2.

Version 1

1.395"W x 0.87"H



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