

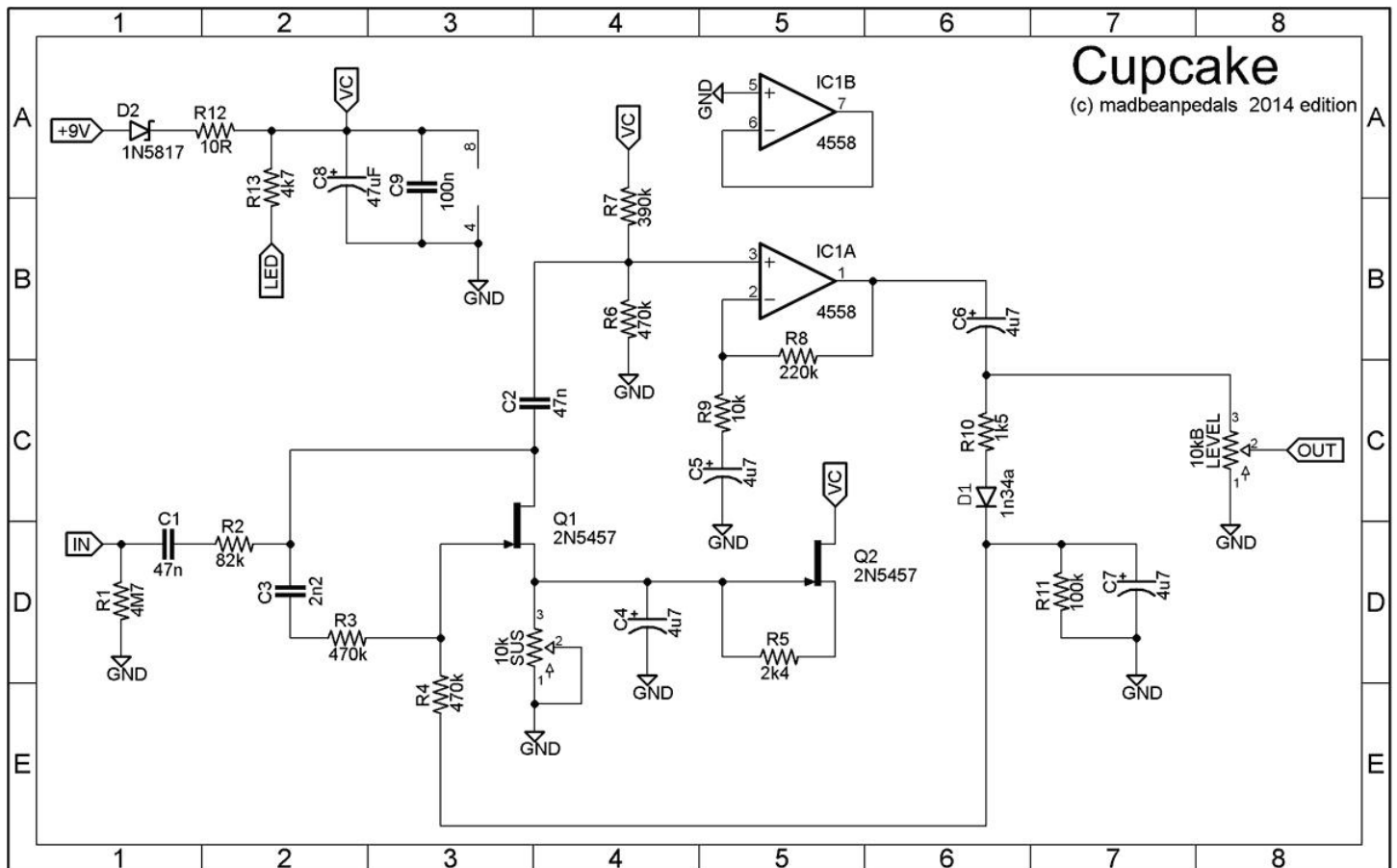
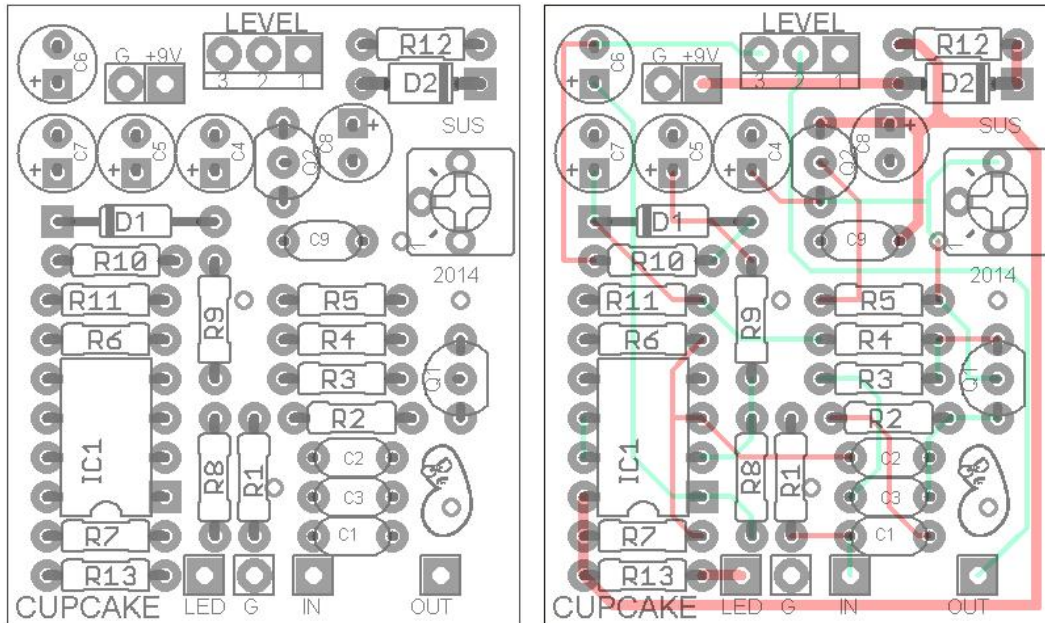
# CUPCAKE

2014 edition

FX TYPE: Compressor

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1.3" W x 1.575" H



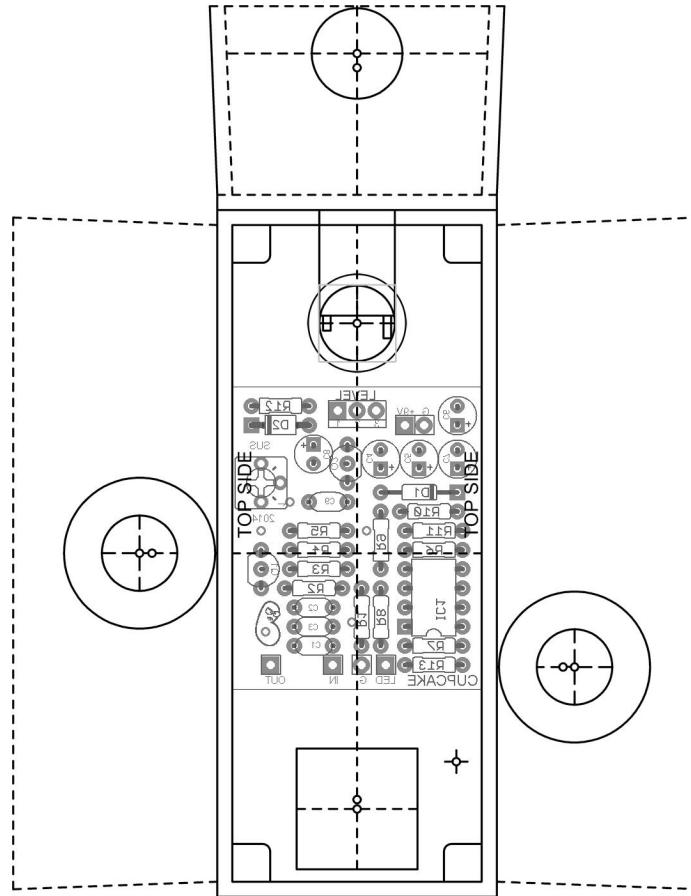
Resistors		Caps		Diodes	
R1	4M7	C1	47n	D1	1n34a
R2	82k	C2	47n	D2	1N5817
R3	470k	C3	2n2	Transistors	
R4	470k	C4	4u7	Q1, Q2	2N5457
R5	2k4	C5	4u7	IC	
R6	470k	C6	4u7	IC1	4558
R7	390k	C7	4u7	Timmer	
R8	220k	C8	47uF	SUS	10k
R9	10k	C9	100n	Pot	
R10	1k5			LEVEL	10kB
R11	100k				
R12	10R				
R13	4k7				

Value	QTY	Type	Rating
10R	1	1/4W Metal/Carbon	
1k5	1	1/4W Metal/Carbon	
2k4	1	1/4W Metal/Carbon	
4k7	1	1/4W Metal/Carbon	
10k	1	1/4W Metal/Carbon	
82k	1	1/4W Metal/Carbon	
100k	1	1/4W Metal/Carbon	
220k	1	1/4W Metal/Carbon	
390k	1	1/4W Metal/Carbon	
470k	3	1/4W Metal/Carbon	
4M7	1	1/4W Metal/Carbon	
2n2	1	Fillm / MLCC	16v or more
47n	2	Fillm / MLCC	16v or more
100n	1	Fillm / MLCC	16v or more
4u7	4	Electrolytic	16v or more
47uF	1	Electrolytic	16v or more
1n34a	1	Germanium	
1N5817	1		
2N5457	2		
10k	1	Bourns 2262 Timpot	

The Cupcake is a clone of the Dan Armstrong “Orange Squeezer”. It is a classic and easy-to-build compressor project suitable for all levels of DIYers. The Cupcake offers a wide range of compressed tones, an easily identifiable character, and is very inexpensive to build. This version of the PCB is suitable for both 1590A and 1590B builds. The 2014 edition is the same circuit as previous versions, but a newer layout.

The SUS trim pot adjusts the maximum compression allowed. As you turn up the SUS trimpot the compression level increases. Noise and distortion will also increase. Set this trimmer at a point where you get the most compression with the least amount of noise and distortion. You can use an external 10kB pot in place of the trimmer if you want but this control is generally considered “set and forget”.

**3.58" W x 4.66" H**  
**1590A Enclosure**



Download the Photoshop template for this guide here:

[http://www.madbeanpedals.com/projects/Cupcake/docs/Cupcake2014\\_Drill.zip](http://www.madbeanpedals.com/projects/Cupcake/docs/Cupcake2014_Drill.zip)

Download the PREVIOUS version of the Cupcake documentation (2012/2013 ed.):

<http://www.madbeanpedals.com/projects/Cupcake/docs/Cupcake.zip>

Please read the Baby Build Guide for tips on how to build 1590A projects with ease:

<http://www.madbeanpedals.com/downloads/BabyBoardGuide.pdf>

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