http://www.madbeanpedals.com PRESENTS

SPROUT

FX TYPE: FUZZ

Based on the Colorsound® One-Knob Fuzz™

PCB artwork ©2011 madbeanpedals

Release date: 01.23.11

The **Sprout** is a simple, no frills, one-knob fuzz machine. It has only one control for volume. The layout has been shrunk so that it can be mounted in a 1590A enclosure for maxim space saving. You can also use a short pin PCB-mounted pot underneath the board, if desired.

The controls are as follows

VOL: The output level.

SmallBear Parts Guide – www.smallbearelec.com

- Panasonic ECQ-B / V film caps or Topmay box caps
- Carbon film Resistors 1/4W and/or metal film resistors 1/4W
- 16v electrolytic radial caps
- Ceramic caps (for pF values)
- 16mm Alpha Pots

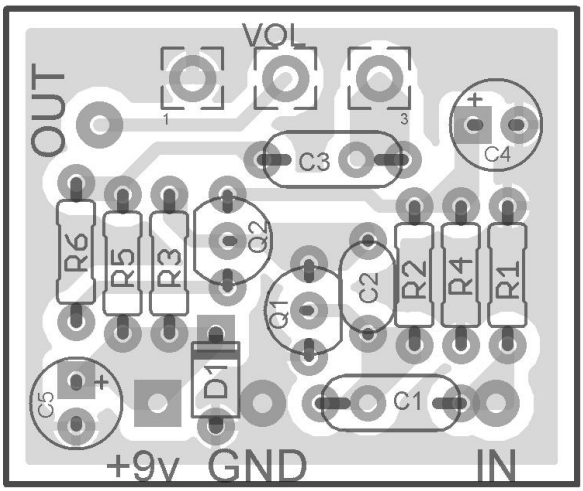
Notes

The stock unit lists BC108 for **Q1** and BC109 for **Q2**. Other transistors will work. Suggestions are 2n3904 or 2n3565. In my personal build, I used a 2n3904 for **Q1** and BC109 for **Q2**.

If you plan on putting the **Sprout** in a 1590B enclosure, you can use a short pin PCB-mounted pot soldered directly to the underside of the board:
http://www.smallbearelec.com/Detail.bok?no=692

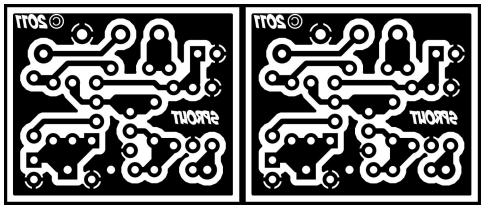
If you are using a 1590A, you might want to use a wired 9mm Alpha pot instead to allow more height for components: http://www.smallbearelec.com/Detail.bok?no=693

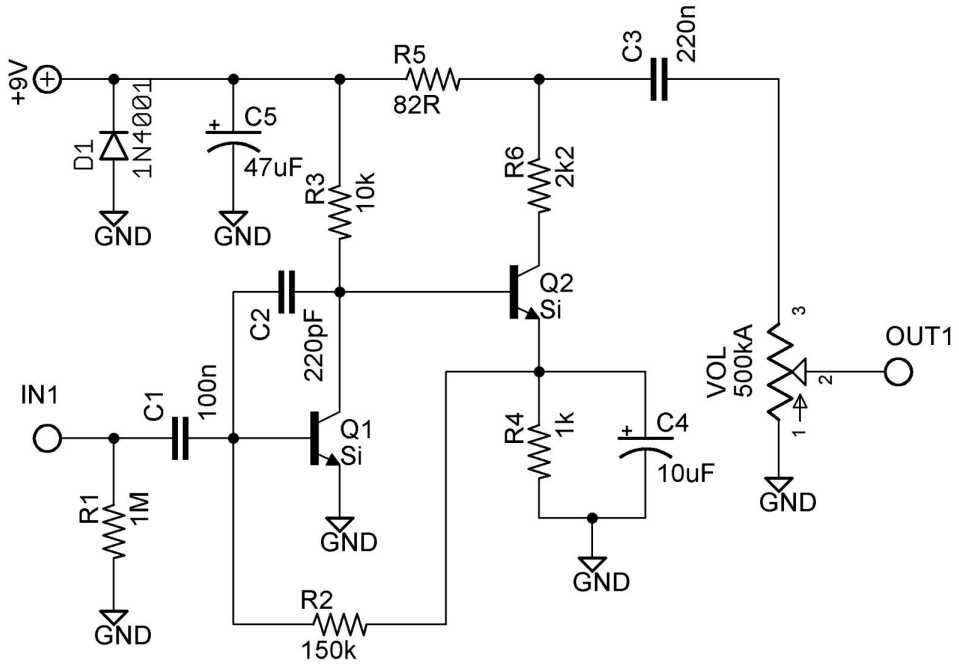
Note the extra pads underneath **C1** and **C3**. This allows you to use either 5mm or 7mm lead-spaced capacitors.

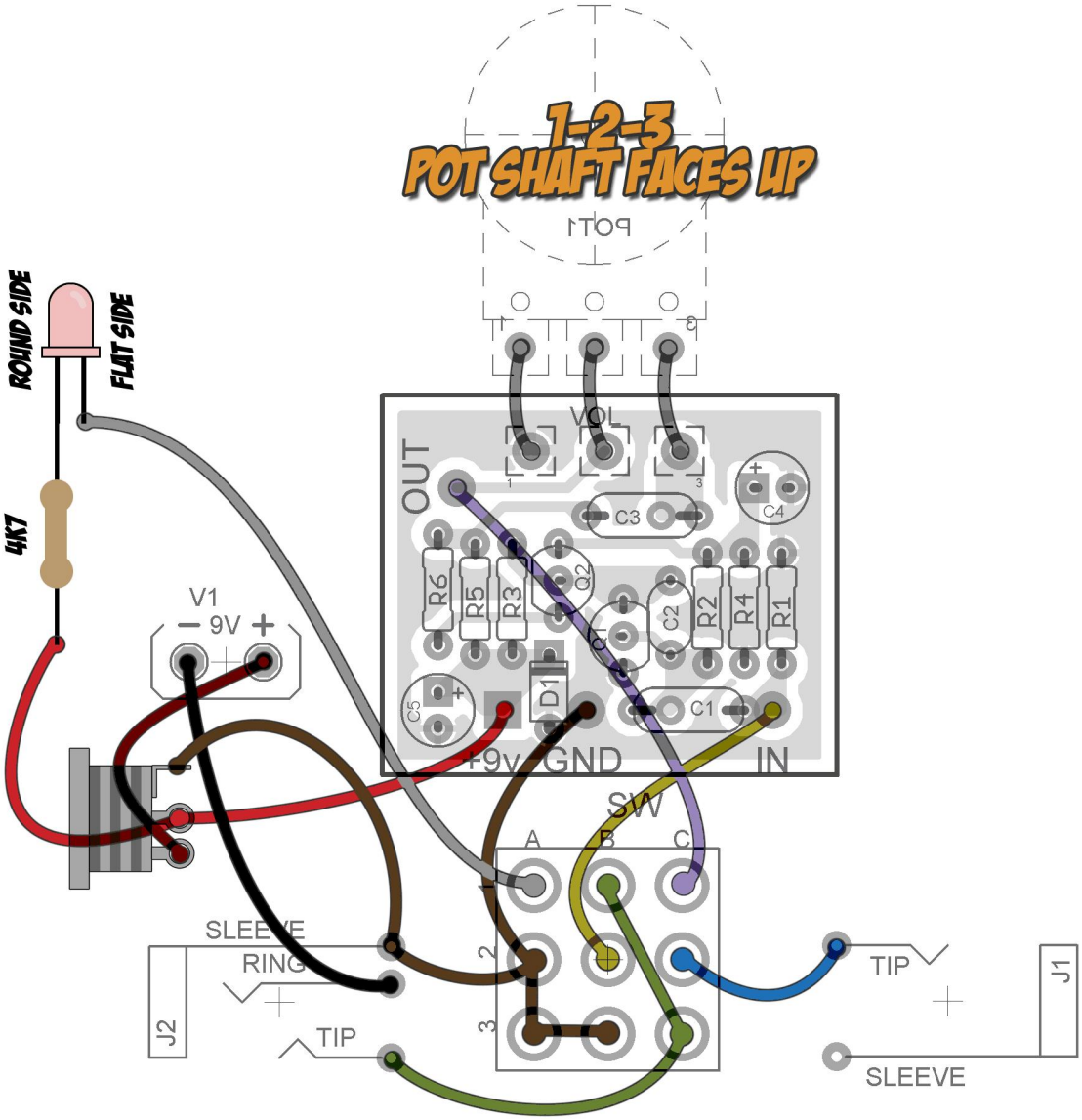


Resistors		Caps		Diodes	
R1	1M	C1	100n	D1	1N4001
R2	150k	C2	220pF	Transistors	
R3	10k	C3	220n	Q1, Q2	Si
R4	1k	C4	10uF	Pots	
R5	82R	C5	47uF	VOL	500kA

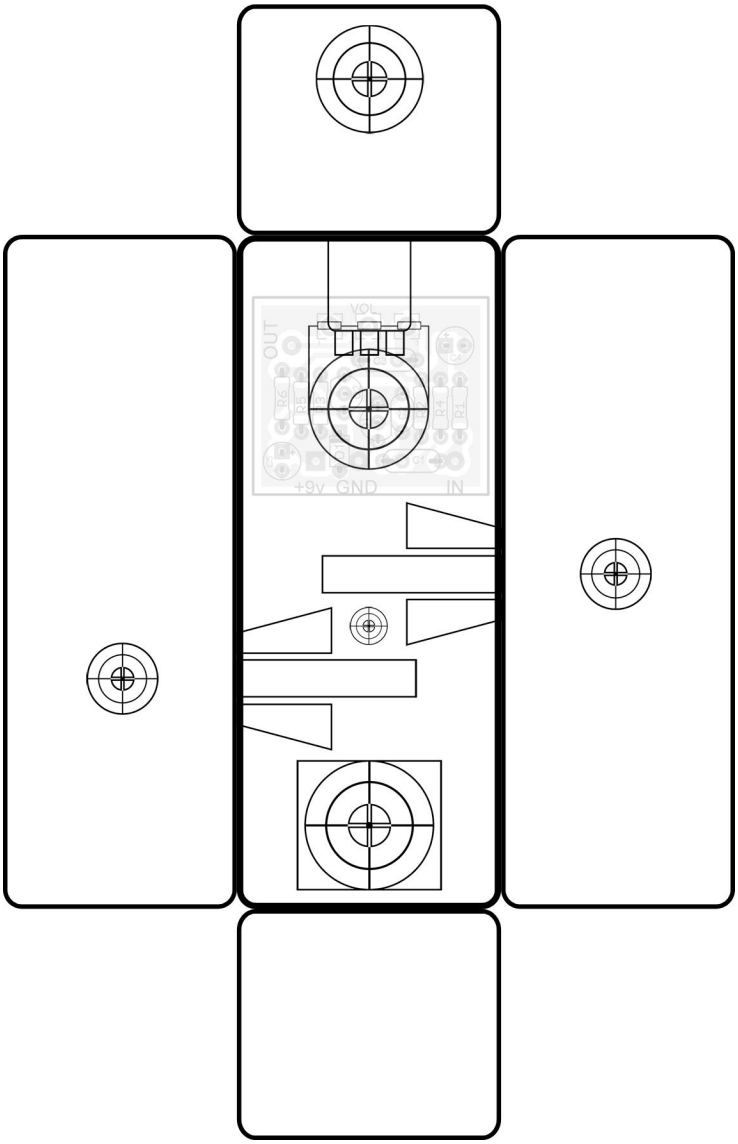
1.23" W x 1.04" H (including borders)



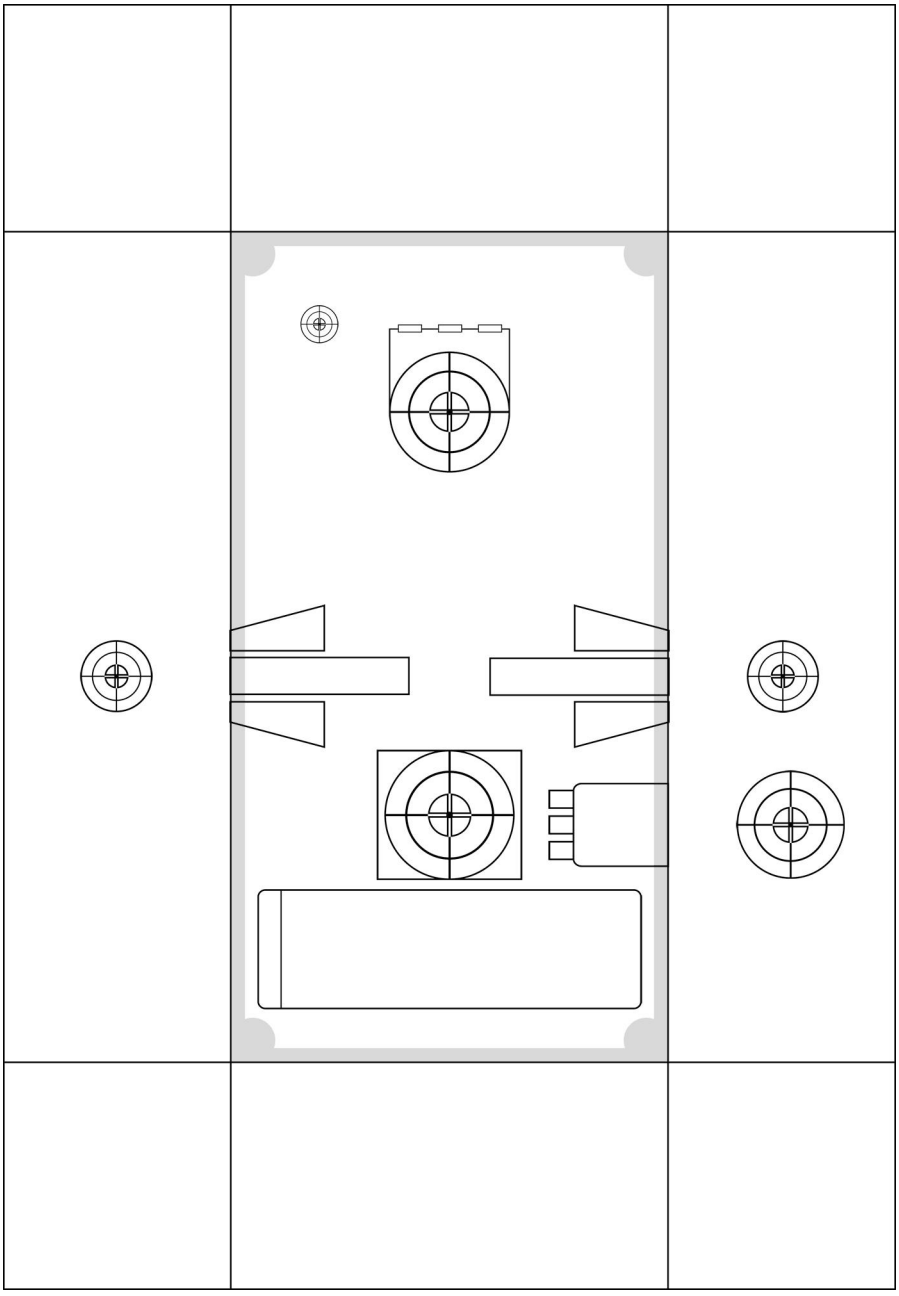



1-2-3
POT SHAFT FACES UP
POT1
ROUND SIDE
FLAT SIDE
4K7
V1
9V
VOL
OUT
C3
C4
R6
R5
R3
Q2
C2
R2
R4
R1
C5
D1
C1
+9v
GND
IN
SW
A
B
C
1
2
3
SLEEVE
RING
TIP
J2
TIP
J1
SLEEVE

1590A Layout
3.82” W x 5.9” H



1590B Layout
4.64” W x 6.69” H



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