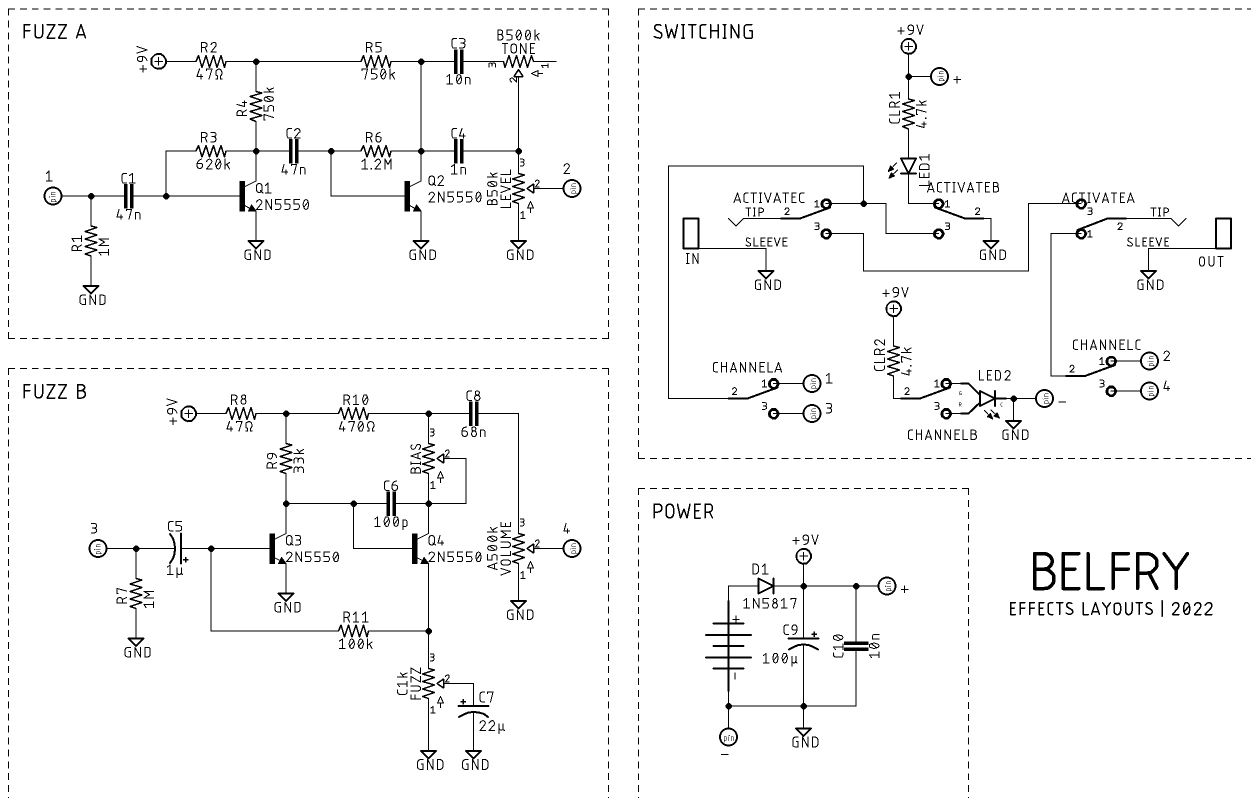




DESCRIPTION

The BELFRY is a 2-in-1 fuzz, inspired by the now discontinued EQD Spires. The Spires was a combination of the Rosac Nu-Fuzz and EQD's Dream Catcher, which is a modified Fuzz Face. Now I've not taken apart an actual Spires, but based on EQD's description we can get pretty close. The Nu-Fuzz circuit has been modified with slightly more common values than original, and the Fuzz Face side is my imagining of the Dream Catcher (and is very likely not accurate, so tweak to your liking). Much like the EQD Grey Channel (see the Black & Tan) one footswitch turns on the unit, and the other selects between the two fuzz circuits.

SCHEMATIC



BELFRY
EFFECTS LAYOUTS | 2022

BOM

Resistors

R1	1M
R2	47Ω
R3	620k
R4	750k
R5	750k
R6	1.2M
R7	1M
R8	47Ω
R9	33k
R10	470Ω
R11	100k
CLR1	4.7k
CLR2	4.7k

Capacitors

C1	47n
C2	47n
C3	10n
C4	1n
C5	1μ
C6	100p
C7	22μ
C8	68n
C9	100μ
C10	100n

Semiconductors

D1	1N5817
LED1	5mm LED
LED2	5mm bi-color common cathode
Q1	2N5550
Q2	2N5550
Q3	2N5550
Q4	2N5550

Electromechanical

Activate	3PDT footswitch
Bias	10k
Channel	3PDT footswitch
Fuzz	C1k
Level	B50k
Tone	B500k
Volume	A500k

Notes

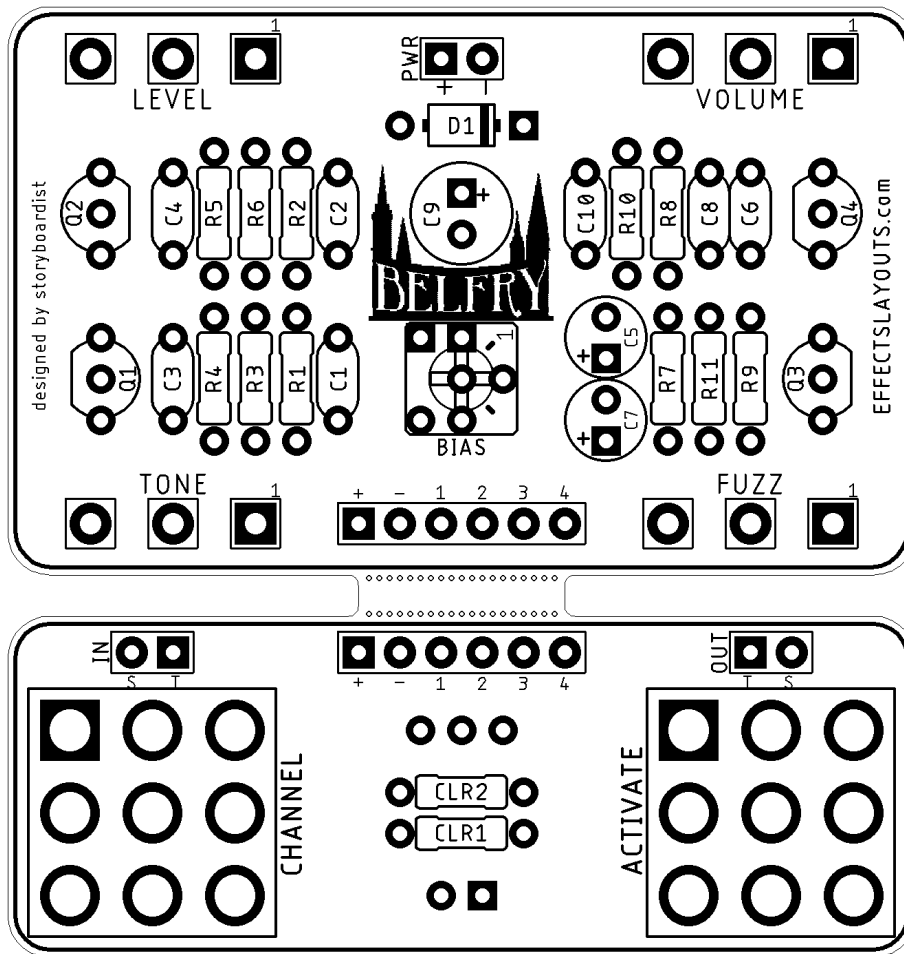
Other low gain transistors can be used like 2N2222A or 2N3904. Sockets are your friends. If you'd rather ditch the footswitch board and wire up each fuzz independently, pad 1 is the input and pad 2 is the output of Fuzz A (Nu-Fuzz), pad 3 is the input and pad 4 is the output of Fuzz B (Fuzz Face), with the + and - pads being +9v and ground respectively.

SHOPPING LIST

Value	Type (suggested)	Quantity
47Ω	¼ watt metal or carbon film	2
470Ω	¼ watt metal or carbon film	1
4.7k	¼ watt metal or carbon film	2
33k	¼ watt metal or carbon film	1
100k	¼ watt metal or carbon film	1
620k	¼ watt metal or carbon film	1
750k	¼ watt metal or carbon film	2
1M	¼ watt metal or carbon film	2
1.2M	¼ watt metal or carbon film	1
100p	Ceramic	1
1n	Film	1

10n	Film	1
47n	Film	2
68n	Film	1
100n	Ceramic	1
1μ	Electrolytic (25v+)	1
22μ	Electrolytic (25v+)	1
100μ	Electrolytic (25v+)	1
1N5817	Schottky rectifier diode	1
2N5550	BJT	4
LED	5mm	1
Bi-color LED	5mm common cathode	1
3PDT	Footswitch	2
10k trim	Trim potentiometer	1
A500k	16mm right angle PC mount	1
B50k	16mm right angle PC mount	1
B500k	16mm right angle PC mount	1
C1k	16mm right angle PC mount	1

LAYOUT



DRILL TEMPLATE (125B)

