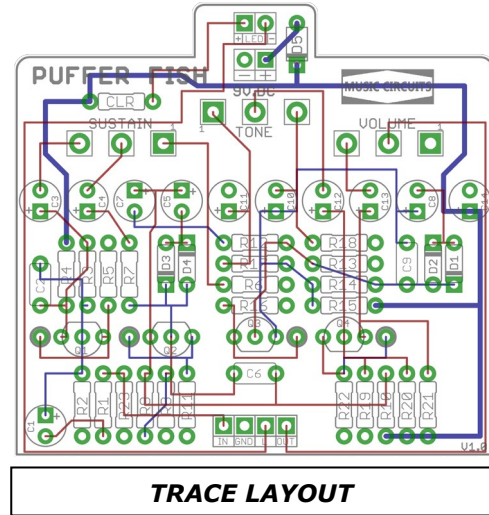
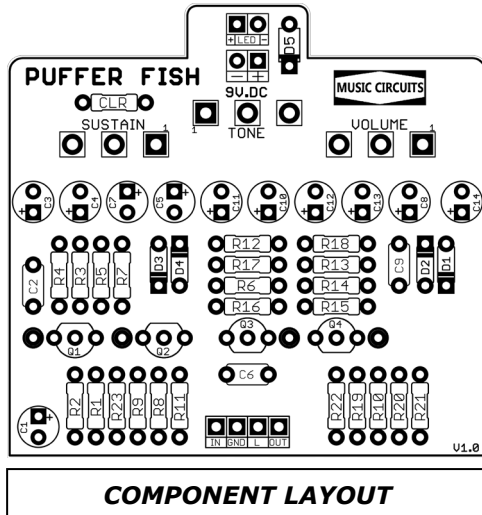


MUSIC CIRCUITS

PUFFER FISH (V1.0)

Based on the EHX® BIG MUFF
REVISION 01.09.2022



EFFECT TYPE: FUZZ

BOARD DIMENSIONS

2.30 x 2.18 inches (58.4 x 55.3mm)

Fits: 125B Enclosure

Please take your time and enjoy.

This document includes:

- ***Bill of Materials***
- ***Schematic***
- ***Drill Template***
- ***Wiring Diagram***

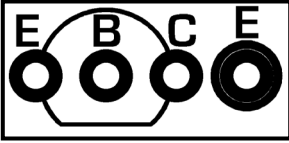


BOM: BIG MUFF (PUFFER FISH)

VARIOUS VERSIONS AVAILABLE

***BE AWARE OF THE TRANSISTOR PINOUT**

***THE SILKSCREEN LAYOUT IS EBC**



***AN EXTRA PAD HAS BEEN PROVIDED SHOULD YOU WISH TO EXPERIMENT WITH WHAT TRANSISTORS YOU USE**

2N5088=EBC (fits as is)

BC549C=CBE (rotate 180°)

2N706A can be difficult to source, it's a 'CAN' type TO-18 Package (legs can be manipulated to fit)

BIGGER MUFF

Resistors

R1	33k
R2	100k
R3	470k
R4	12k
R5	100R
R6	8k2
R7	10k
R8	100k
R9	470k
R10	12k
R11	100R
R12	10k
R13	100k
R14	470k
R15	12k
R16	100R
R17	33k
R18	33k
R19	100k
R20	510k
R21	12k
R22	3k3
R23	1M
CLR	4k7

Capacitors

C1	10uf
C2	47p
C3	100n
C4	100n
C5	100n
C6	47p
C7	10uf
C8	100n
C9	47p
C10	4n7
C11	10n
C12	100n
C13	10uf
C14	100uf

Transistors

Q1	2N706A
Q2	2N706A
Q3	2N706A
Q4	2N706A

Diodes

D1	1N914
D2	1N914
D3	1N914
D4	1N914
D5	1N5817

Pots

SUSTAIN	B100k
TONE	B100k
VOL	A100k

CIVIL WAR

Resistors

R1	39k
R2	100k
R3	470k
R4	12k
R5	390R
R6	1k
R7	10k
R8	100k
R9	470k
R10	12k
R11	390R
R12	10k
R13	100k
R14	470k
R15	12k
R16	390R
R17	20k
R18	22k
R19	100k
R20	470k
R21	10k
R22	2k7
R23	1M
CLR	4k7

Capacitors

C1	100n
C2	430p
C3	100n
C4	100n
C5	47n
C6	430p
C7	100n
C8	47n
C9	430p
C10	3n9
C11	10n
C12	100n
C13	100n
C14	100uf

Transistors

Q1	2N5088
Q2	2N5088
Q3	2N5088
Q4	2N5088

Diodes

D1	1N914
D2	1N914
D3	1N914
D4	1N914
D5	1N5817

Pots

SUSTAIN	B100k
TONE	B100k
VOL	A100k

FOXY LADY-GUILD**Resistors**

R1 33k
 R2 100k
 R3 470k
 R4 12k
 R5 100R
 R6 8k2
 R7 7k5
 R8 100k
 R9 470k
 R10 12k
 R11 100R
 R12 7k5
 R13 100k
 R14 470k
 R15 12k
 R16 100R
 R17 33k
 R18 100k
 R19 100k
 R20 390k
 R21 12k
 R22 3k3
 R23 1M
 CLR 4k7

Capacitors

C1 120n
 C2 none
 C3 120n
 C4 120n
 C5 120n
 C6 470p
 C7 120n
 C8 120n
 C9 470p
 C10 4n7
 C11 100n
 C12 120n
 C13 120n
 C14 100uf

Transistors

Q1 2N5089
 Q2 2N5089
 Q3 2N5089
 Q4 2N5089

Diodes

D1 1N914
 D2 1N914
 D3 1N914
 D4 1N914
 D5 1N5817

Pots

SUSTAIN A100k
 TONE B100k
 VOL A100k

J MASCIS**Resistors**

R1 39k
 R2 100k
 R3 470k
 R4 15k
 R5 100R
 R6 1k
 R7 8k2
 R8 100k
 R9 470k
 R10 15k
 R11 100R
 R12 8k2
 R13 100k
 R14 470k
 R15 15k
 R16 100R
 R17 39k
 R18 22k
 R19 100k
 R20 430k
 R21 10k
 R22 3k3
 R23 1M
 CLR 4k7

Capacitors

C1 1uf
 C2 470p
 C3 100n
 C4 100n
 C5 1uf
 C6 470p
 C7 100n
 C8 1uf
 C9 470p
 C10 4n7
 C11 10n
 C12 100n
 C13 1uf
 C14 100uf

Transistors

Q1 2N5088
 Q2 2N5088
 Q3 2N5088
 Q4 2N5088

Diodes

D1 1N914
 D2 1N914
 D3 1N914
 D4 1N914
 D5 1N5817

Pots

SUSTAIN B100k
 TONE B100k
 VOL A100k

RAMS HEAD**Resistors**

R1 33k
 R2 100k
 R3 470k
 R4 12k
 R5 100R
 R6 1K
 R7 8K2
 R8 100k
 R9 470k
 R10 12k
 R11 100R
 R12 8K2
 R13 100K
 R14 470k
 R15 12k
 R16 100R
 R17 33k
 R18 33k
 R19 100k
 R20 470K
 R21 12k
 R22 4k7
 R23 1M
 CLR 4k7

Capacitors

C1 100n
 C2 470p
 C3 100n
 C4 100n
 C5 100n
 C6 470p
 C7 100n
 C8 100n
 C9 470p
 C10 3n9
 C11 10n
 C12 100n
 C13 100n
 C14 100uf

Transistors

Q1 2N706A
 Q2 2N706A
 Q3 2N706A
 Q4 2N706A

Diodes

D1 1N914
 D2 1N914
 D3 1N914
 D4 1N914
 D5 1N5817

Pots

SUSTAIN B100k
 TONE B100k
 VOL A100k

GREEN RUSSIAN**Resistors**

R1 39k
 R2 100k
 R3 470k
 R4 12k
 R5 390R
 R6 1k
 R7 10k
 R8 100k
 R9 470k
 R10 12k
 R11 390R
 R12 10k
 R13 100k
 R14 470k
 R15 12k
 R16 390R
 R17 20k
 R18 22k
 R19 100k
 R20 470k
 R21 10k
 R22 2k
 R23 1M
 CLR 4k7

Capacitors

C1 100n
 C2 470p
 C3 100n
 C4 100n
 C5 47n
 C6 470p
 C7 100n
 C8 47n
 C9 470p
 C10 3n9
 C11 10n
 C12 100n
 C13 100n
 C14 100uf

Transistors

Q1 2N5088
 Q2 2N5088
 Q3 2N5088
 Q4 2N5088

Diodes

D1 1N914
 D2 1N914
 D3 1N914
 D4 1N914
 D5 1N5817

Pots

SUSTAIN B100k
 TONE B100k
 VOL A100k

TRIANGLE**Resistors**

R1 3k3
 R2 82k
 R3 390k
 R4 22k
 R5 820R
 R6 1k
 R7 8k2
 R8 none
 R9 390k
 R10 12k
 R11 150R
 R12 8k2
 R13 82k
 R14 390k
 R15 22k
 R16 820R
 R17 39k
 R18 39k
 R19 100k
 R20 390k
 R21 12k
 R22 2k7
 R23 1M
 CLR 4k7

Capacitors

C1 100n
 C2 none
 C3 100n
 C4 100n
 C5 50n
 C6 560p
 C7 100n
 C8 50n
 C9 560p
 C10 4n7
 C11 10n
 C12 100n
 C13 100n
 C14 100uf

Transistors

Q1 2N5088
 Q2 2N5088
 Q3 2N5088
 Q4 2N5088

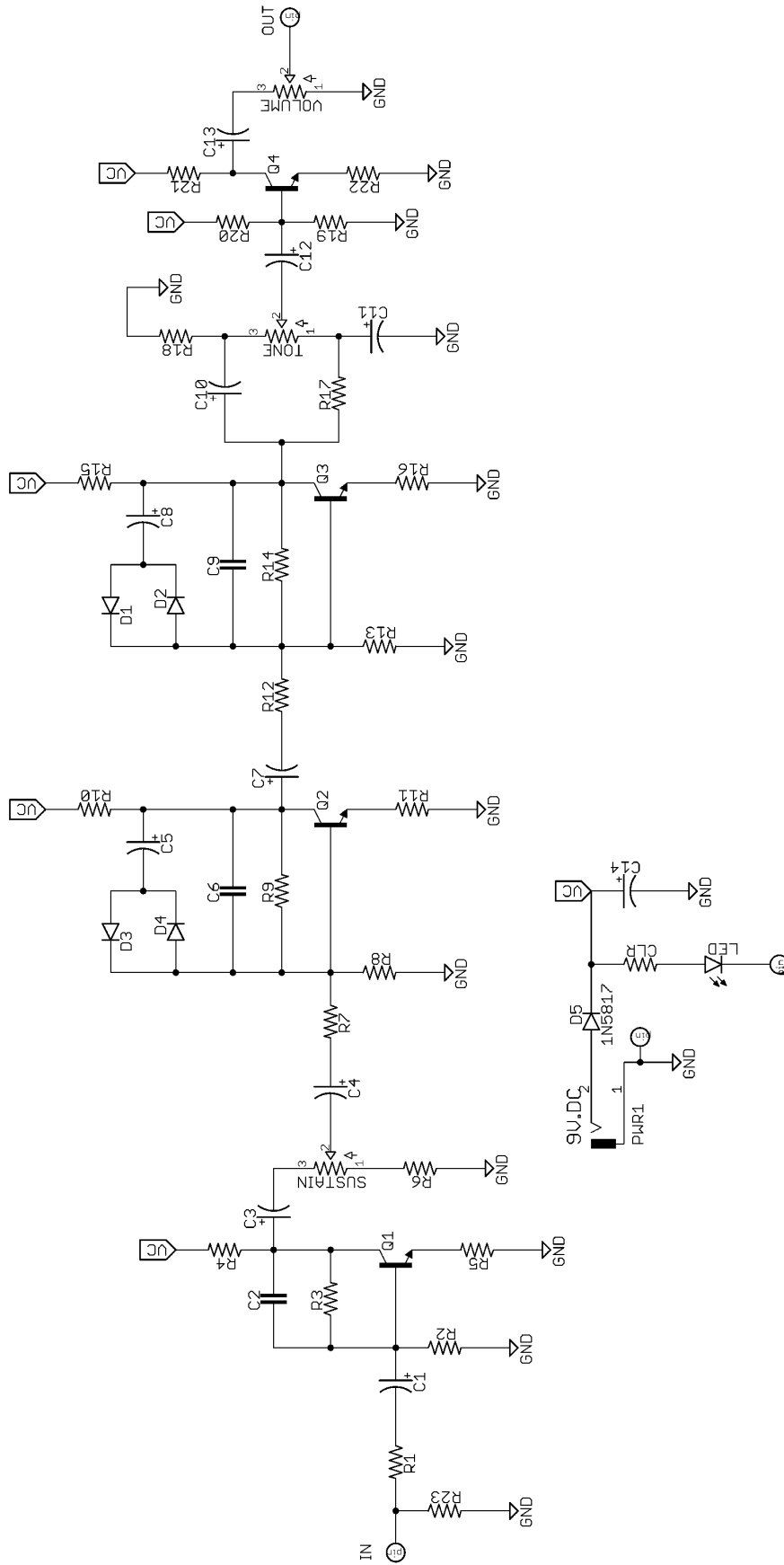
Diodes

D1 1N914
 D2 1N914
 D3 1N914
 D4 1N914
 D5 1N5817

Pots

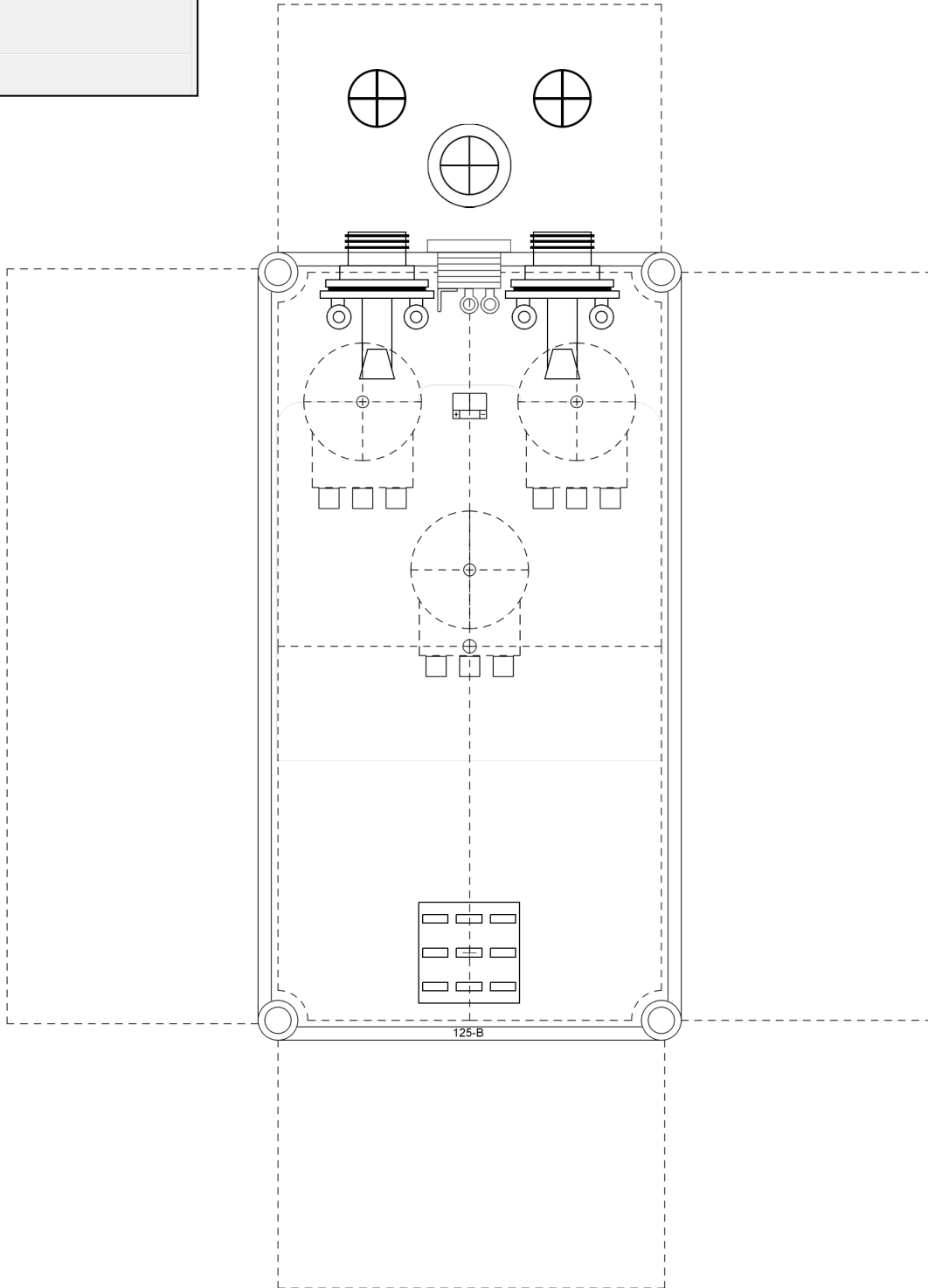
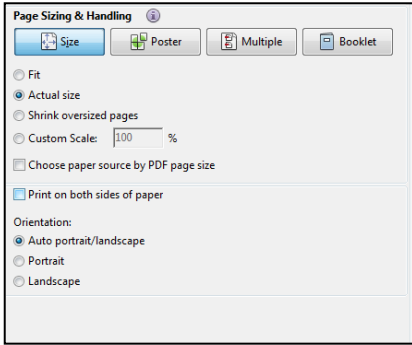
SUSTAIN B100k
 TONE B100k
 VOL A100k

SCHEMATIC



DRILL TEMPLATE

Adobe PDF: PRINT ACTUAL SIZE



WIRING IT UP

It's good to test the effect outside of the enclosure. I do sell a tester board which is perfect for this. When your good to go, here's how to wire things up.

3PDT WIRING

