HUSKYBOY

FX TYPE: Boost

Based on the Paul Cochrane Fat Bastard

Enclosure Size: 1590A

"Softie" compatibility: none

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Overview

ObiWon-Armon: "Have you ever heard the tragedy of Dark Foltune the Guy?"

Padawan Kokrain: "No."

ObiWon-Armon: "I thought not. It's not a story the pedalmakers would tell you. It's a DIY legend. Dark Foltune was a Dark Lord of Boutique, so powerful and so wise he could use the Fuzz to influence electrons to create tone… He had such a knowledge of cloning, he could even keep the pedals he copied from being exposed."

Padawan Kokrain: "He could actually save pedals from cloning?"

ObiWon-Armon: "The dark side of the Fuzz is a pathway to many abilities some consider to be... unnatural."

Padawan Kokrain: "What happened to him?"

ObiWon-Armon: "He became so powerful… the only thing he was afraid of was losing his power, which eventually, of course, he did. Unfortunately, he taught his apprentice everything he knew, then his apprentice exposed his dark cloning. Ironic. He could save pedals from being copied, but not himself."

Padawan Kokrain: "Is it possible to learn this power?"
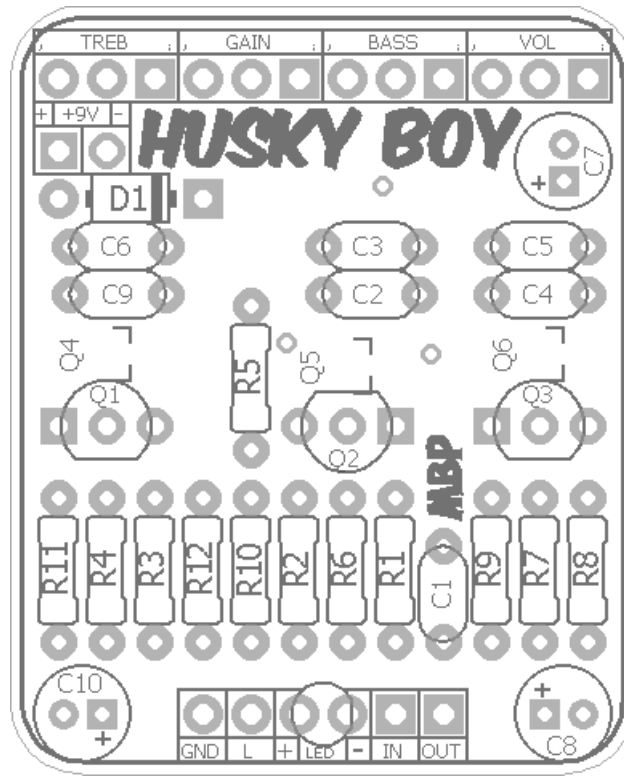
ObiWon-Armon: "Not from DIY."

Controls

- **GAIN:** Up to 20+dB of clean gain.
- **BASS and TREB:** The controls *roll-off* bass and treble, resp.
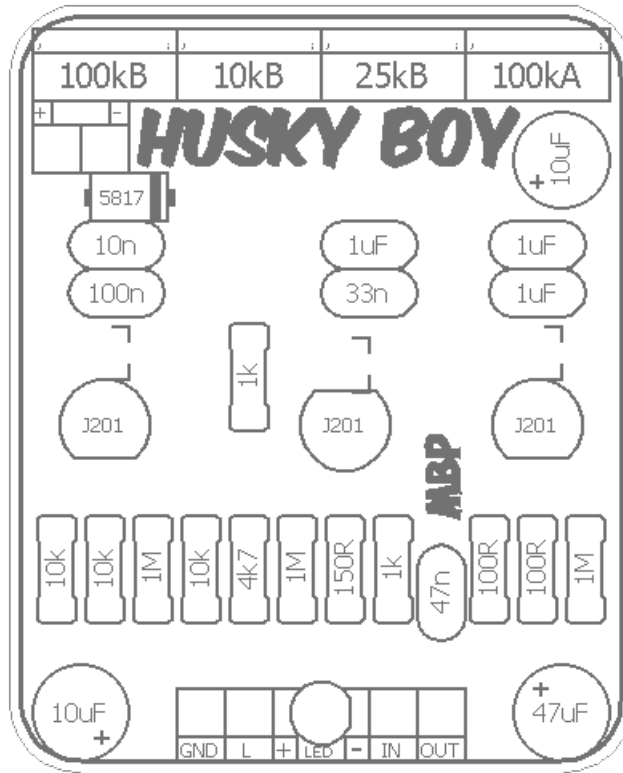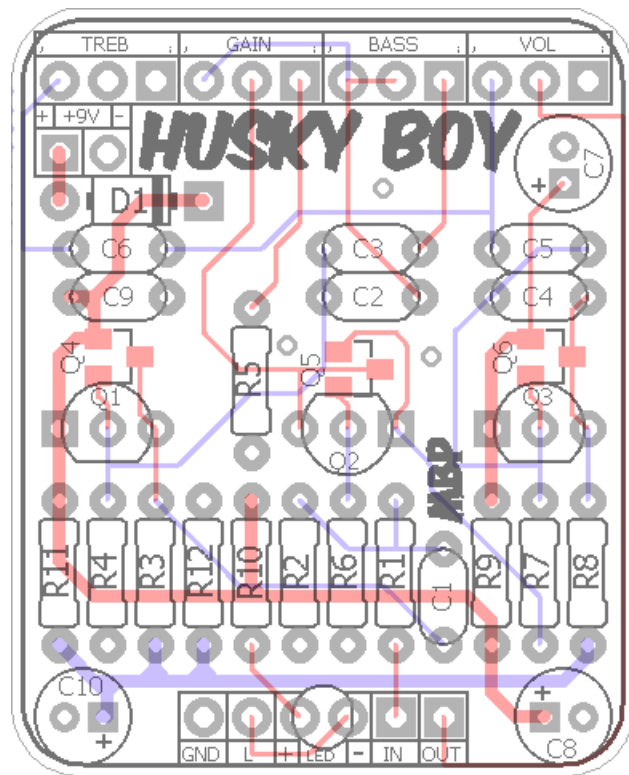- **VOL:** Total output.

- Q4-Q6 are SMD subs for the through-hole J201.

100kB	10kB	25kB	100kA

HUSKY BOY

+10uF

5817

10n | 1uF | 1uF
100n | 33n | 1uF

1k

J201 | J201 | J201

MBP

10k 10k 1M 10k 4K7 1M 150R 1k 47n 100R 100R 1M

10uF + | GND | L | + LED − | IN | OUT | +47uF

Resistors		Caps		Diodes	
R1	1k	C1	47n	D1	5817
R2	1M	C2	33n	**Transistors**	
R3	1M	C3	1uF	Q1 - Q3	J201
R4	10k	C4	1uF	**Pots**	
R5	1k	C5	1uF	GAIN	10kB
R6	150R	C6	10n	BASS	25kB
R7	100R	C7	10uF	VOL	100kA
R8	1M	C8	47uF	TREB	100kB
R9	100R	C9	100n		
R10	4k7	C10	10uF		
R11	10k				
R12	10k				

Value	QTY	Type	Rating
100R	2	Metal / Carbon Film	1/4W
150R	1	Metal / Carbon Film	1/4W
1k	2	Metal / Carbon Film	1/4W
4k7	1	Metal / Carbon Film	1/4W
10k	3	Metal / Carbon Film	1/4W
1M	3	Metal / Carbon Film	1/4W
10n	1	Film	16v min.
33n	1	Film	16v min.
47n	1	Film	16v min.
100n	1	Film	16v min.
1uF	3	*included w/PCB	
10uF	2	Low-profile Electrolytic	16v min.
47uF	1	Low-profile Electrolytic	16v min.
5817	1		
J201	3		
10kB	1	PC Mount	9mm
25kB	1	PC Mount	9mm
100kA	1	PC Mount	9mm
100kB	1	PC Mount	9mm

- The HuskyBoy requires three 1uF MLCC caps which are not available at smallbear. They are included with the PCB purchase.

Low profile Electrolytic caps:

http://smallbear-electronics.mybigcommerce.com/electrolytic-radial-low-profile-16v-1-f-100-f/

J201:

http://smallbear-electronics.mybigcommerce.com/transistor-fet-j201-generic/

MMBFJ201:

http://smallbear-electronics.mybigcommerce.com/fairchild-on-semi-jfet-mmbfj201/

9mm PC Mount pots:

http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-9mm-pc-mount/

Thinline DC Jack:

http://smallbear-electronics.mybigcommerce.com/dc-power-jack-all-plastic-unswitched-2-1-mm/

Enclosed Mono:

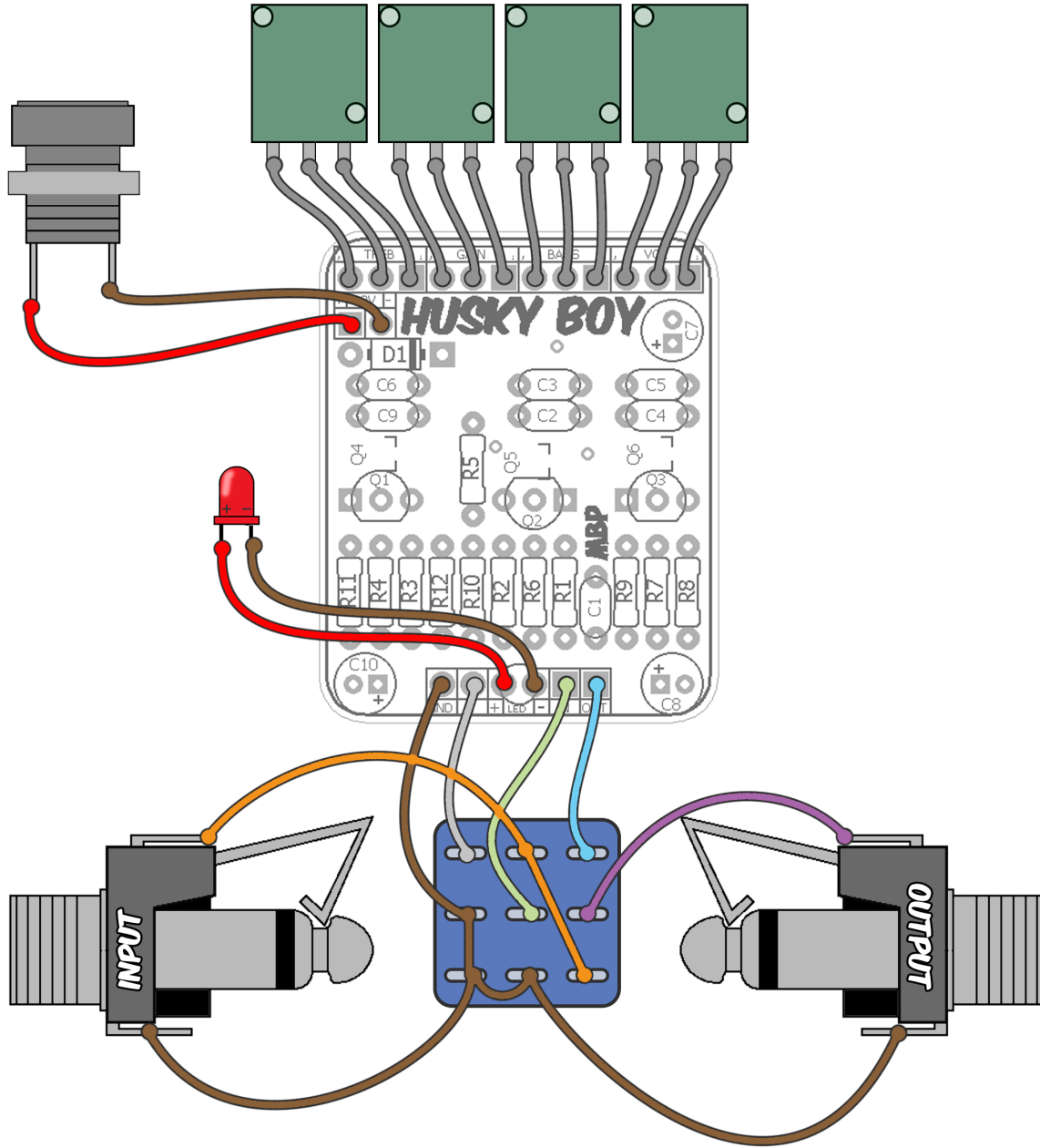http://smallbear-electronics.mybigcommerce.com/1-4-in-mono-enclosed-jack/
http://smallbear-electronics.mybigcommerce.com/1-4-in-mono-enclosed-switchcraft-111x/
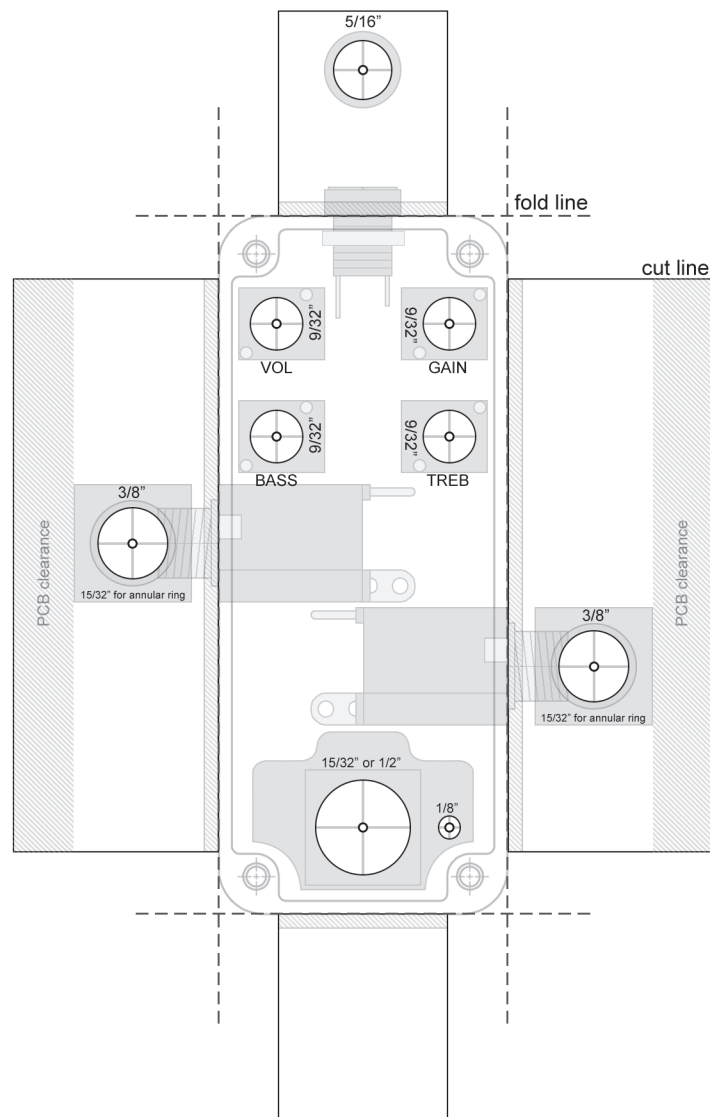
Lumberg Mono:

http://smallbear-electronics.mybigcommerce.com/lumberg-1-4-compact-shrouded-mono-jack/

- Q4-Q6 are for the surface mount version of the J201 (the MMBFJ201 in SOT-23 format). You can use either one, or even mix and match depending on the devices you have. Just don't use both for the same transistor!

- It may be possible to use 12mm pots in place of the 9mm but most likely it would require some adjustment to the drill template provided. The 12mm pots have solder tabs which make wiring a bit easier.
  http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-12mm-solder-terms/

- For 9mm pots, using some perf cut down to two rows of three pads will make wiring much easier, or you can use the 9mm "breadbuddy" boards for sale in the mbp store.

- If you don't know the history of the Jack Orman Mini-Booster, the Fulltone® Fat Boost™ and Paul Cochrane's "Fat Bastard" look it up! It's quite a story.

HUSKY BOY

D1

C6
C9

C3
C2

C5
C4

C7

R5

Q4
Q1

Q5
Q2

Q6
Q3

 MBP

R11 R4 R3 R12 R10 R2 R6 R1 C1 R9 R7 R8

C10

C8

GND + LED - IN OUT

INPUT

OUTPUT

Note: *Drill Guides are approximate and may require tweaking depending on the types of jacks, switches and pots you use.*

- This template will work for either mono enclosed jacks or the "Lumberg" style.
- It uses the "Thinline" style DC Jack but you should be able to fit other styles in there (different drill size req'd).
- It also shows the 3PDT02 bypass PCB but this is not required. If you are wiring straight to a 3PDT you can use the same LED location on the right side or choose a different spot.

Q1	DC
G	4.18
S	4.84
D	9.19

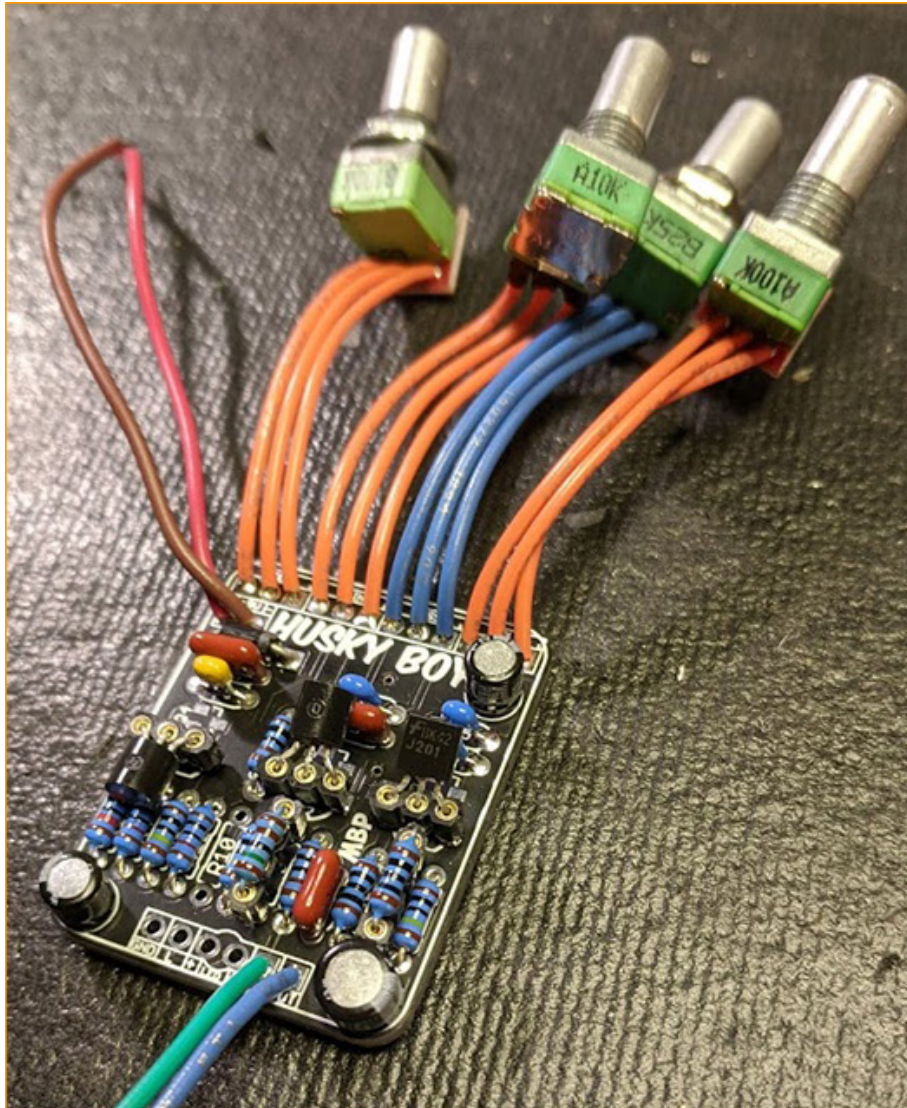| Q2	DC
G	~0
S	0.4
D	4.84

Q3	DC
G	4.17
S	4.87
D	9.16

- 9.42vDC One Spot
- Current Draw: ~ 2mA

Ran out of 10kB so I had to improvise with a different 10kA!

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+9V
CENTER TIP NEGATIVE
D1 5817
GND

VC
VB

R11 10k
R10 4k7
R12 10k
C8 47uF
C9 100n
C10 10uF

BYP.1_LED
GND
BYP.1_GND

BYP.1_L

VB
R3 1M

VB
R8 1M

R9 100R
VC

C7 10uF
GND

Q3 J201

VC

BYP.1_IN

IN
R1 1k
C1 47n
Q1 J201

R2 1M
GND

C3 1uF
25kB BASS
C4 1uF
C5 1uF

C2 33n
10kB GAIN
R7 100R
C6 10n
100kB TREB
100kA VOL

BYP.1_OUT
OUT

R4 10k
GND

R5 1k
GND

Q2 J201
R6 150R
GND

GND
GND
GND

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