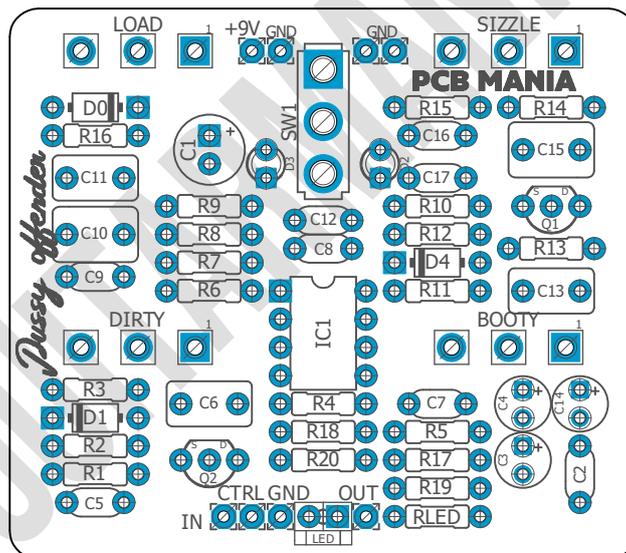


# Pussy Offender

<b>Based on:</b> Pussy Offender/Butthole Burner	<b>Amount of parts:</b> Average, total 52 components	<b>Enclosure type:</b> 125b
<b>Effect type:</b> Overdrive/Distortion	<b>Technology:</b> Dual OpAmp + mosfet gain stage	<b>Get your board at:</b> <a href="#">Pussy Offender</a>
<b>Build difficult:</b> Average	<b>Power consumption:</b> 9V	<b>Get your kit at:</b> <a href="#">Das Musikding (Europe)</a>

## Project overview:

Here's your chance to build one of the most polemical pedals now banned off the markets. This simple yet powerful drive consist of a mosfet buffer followed by a opamp gain stage and a second mosfet gain stage, and will deliver all the distortion to melt or offend your audience and fellow bandmates!



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## Introduction

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Everybody is talking about its name but no one about the sound of probably the **most controversial pedal** ever. By 2018 Satchel from the Band Steel Panther released his own pedal in collaboration with TC Electronic, the Pussy Melter and guess what? People were massively offended by the name. (Get the hint to our name?)

For a while, this was a great addition for the pedal itself and the band but more and more stores refused to sell it, Even Reverb. People even made a petition against the pedal. So Satchel said that he will stop selling pussy melters.

In 2020 they released the Butthole burner, being this one the same circuit, but with a different enclosure, and a different effect on the general public.

But enough about that. Let's talk tone!

I did not expect a bad pedal from TC but some kind of JMC800 emulation. Instead, it's a complete new circuit design, and holy moly it delivers great rock n roll tones. From slight drive to dirty to... ahm... melting... things.

Sound wise I would say it goes in a Marshall/Friedman direction, but a little bit darker.

BTW, load is volume, booty is bass, sizzle is high end, dirty the amount of gain and the moist/gushing toggle will let it go nuts for singing leads.

**Circuit requires the CA3240 opamp.** Using TL072 or similar will not do the trick. At least it did not in my build.

## Controls

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- BOOTY: Bass
- Sizzle: High end
- Dirty: Gain
- Load: Volume

# Bill of materials

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Resistors	
Part	Value
R1	1M
R2	4M7
R3	2K7
R4	1K
R5	470K
R6	4K7
R7	2K4
R8	2K7
R9	220R
R10	1K
R11	4K7
R12	1M
R13	4K7
R14	4K7
R15	10K
R16	10K
R17	10K
R18	10K
R19	10K
R20	10K
RLED	4K7

Capacitors	
Part	Value
C2	100n
C5	22n
C6	470n
C7	1n
C8	220p
C9	100n
C10	1u
C11	470n
C12	100n
C13	470n
C15	1u
C16	100n

C17	3n9
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Electrolytics Capacitors	
Part	Value
C1	100u
C3	47u
C4	47u
C14	10u

Potentiometers	
Part	Value
BOOTY	C5K
DIRTY	A500K
LOAD	A100K
SIZZLE	A10K

Trim pots	
Part	Value
IC1	CA3240EZ

Transistors	
Part	Value
Q1	BS170
Q2	BS170

Switch	
Part	Value
SW1	SPDT ON-ON

Diodes	
Part	Value
D0	1N5817
D1	9V1 ZENER
D2	3mm RED LED

**D3** 3mm RED LED**D4** 9V1 ZENER

## Shopping list

### Resistors

Qty	Value	Parts
6	10K	R15, R16, R17, R18, R19, R20
2	1K	R4, R10
2	1M	R1, R12
1	220R	R9
1	2K4	R7
2	2K7	R3, R8
1	470K	R5
5	4K7	R6, R11, R13, R14, RLED
1	4M7	R2

### Capacitors

Qty	Value	Parts
4	100n	C2, C9, C12, C16
1	1n	C7
2	1u	C10, C15
1	220p	C8
1	22n	C5
1	3n9	C17
3	470n	C6, C11, C13

### Electrolytic Capacitors

Qty	Value	Parts
1	100u	C1
1	10u	C14
2	47u	C3, C4

### Potentiometers

Qty	Value	Parts
1	A100K	LOAD
1	A10K	SIZZLE
1	A500K	DIRTY
1	C5K	BOOTY

### IC

Qty	Value	Parts
1	CA3240EZ	IC1

### Transistors

Qty	Value	Parts
2	BS170	Q1, Q2

### Switches

Qty	Value	Parts
1	SPDT ON/ON	SW1

### Diodes

Qty	Value	Parts
1	1N5817	D0
2	9V1 ZENER	D1, D4
2	3mm Red LED	D2, D3

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## Schematic

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PCBGUITARMANIA.COM



As many people like to experiment some pedals with higher voltage, always ensure the max tolerance of your **electrolytic capacitors** is over 25v.

This board has been tested using Film box capacitors for most of the values over 1nf, and ceramics discs for the ones under 1nf. However, high quality components such as Wima's Capacitors and Panasonic's electrolytics can deliver a better performance.

All the resistors used for testing this project are 1/4W Metal Film.

The BOM and Shopping list are exclusively regarding this project. It doesn't include all the hardware like the 3PDT bypass switch, audio/dc jacks, enclosure, etc.

## Build Notes

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If this is one of your first projects I recommend you to take a look on our [Pedal Building Guide](#)

For a successful and tidy build it's recommended the following order:

1. Resistors & diodes
2. Capacitors, starting with the smaller ones and the ceramic ones.
3. Electrolytic capacitors (always check the polarity)
4. Transistors
5. Wires
6. Potentiometers and switches
7. Off board wiring

## Wiring Diagram

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All our projects include a free 3PDT Board to make the wiring easier and tidier. Also all of our PCBs feature the status LED on board.

The pad named "Ctrl" or "LED" is the one that controls the status of the led, wire it to the "LED" pad on the 3PDT board, or in control slug of your 3PDT.

This board has been designed to match our EZ 3PDT PCB check it [here](#) to access to our [Pedal Wiring Guide](#).

## Drill Template

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This Project has been planned to fit into a 125b enclosure type.

Check the Attached “Drilling templates” to drill the box properly. The files are on Scale 1:1, ready to print in an A4 page.

## Licensing and Usage

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We really appreciate your trust and support buying this PCB, as well as your will to dive into the DIY electronics world. That’s why for us is really important that you can make this project work properly and to enjoy not only the building process, but also to experiment and play with it on your rig.

We try to reply to every question we receive on our email or in our social media, but we try to encourage all our customers to join our [PCB Guitar Mania – Builders Group](#) on Facebook, in order to post all your doubts, issues, suggestions or request, as well to share your builds and have some feedback from us and other fellow builders!

All of our projects have been tested following this same guide on their standard configurations. Although, not all of the variations and mods have necessarily been tested. These are suggestions based on the schematic analysis, and on the experiences and opinions of others. Feel free to share with us your opinions and suggestions regarding the mods your own personal experimentation.

These boards may be used for commercial endeavors in any quantity unless specifically noted. No attribution is necessary, though accreditation or a link back is always greatly appreciated.

If you are a builder planning to make your own run of pedals we also offer the service of custom made boards with your brand and logo, design according your specifications.

The only usage restrictions are that, first, you cannot resell the PCB as part of a kit without prior arrangement with us, and second, you cannot scratch off the silk screen, or other way of trying to hide our logos and the source of the PCBs. Like it’s written above, if you want to have your own designs, with your brand and logo we could certainly reach an agreement.

Follow us on [Instagram](#) and [Facebook](#) to stay in tune with the latest projects!