

Pussy Offender SMD

Based on:

Pussy Offender/Butthole Burner

Effect type:

Overdrive/Distortion

Build difficult:

Easy

Amount of parts:

Low, total 23 components

Technology:

Dual OpAmp + mosfet gain stage

Power consumption:

9V

Enclosure type:

125b

Get your board at:

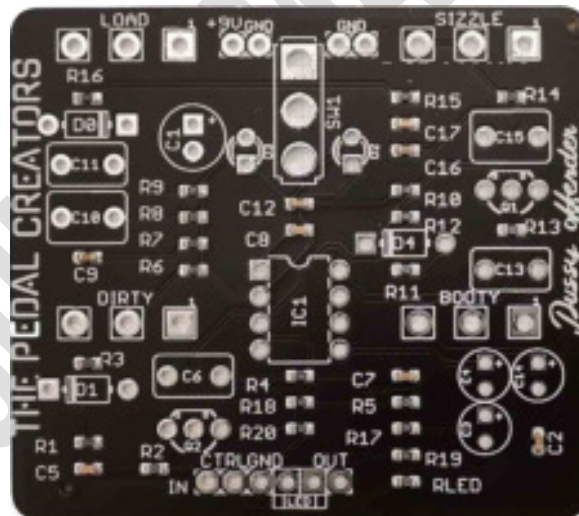
[Pussy Offender SMD](#)

Get your kit at:

[Das Musikding \(Europe\)](#)

Project overview:

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



About The Pedal Creators

Everyone can build excellent boutique guitar **pedals**.

Everything **we do** is to make that **experience** more accessible and **user-friendlier**.

The **Pedal Creators** series are the **best and easiest to build PCBs** ever. Including most **resistors** and **capacitors** already **soldered** on board as SMD components, leaving the key values for you to **experiment** and craft **your own tone**.

Now you can **build** a pedal you are **proud** of in **less than an hour** without any previous experience.

What are you waiting for to **become a Pedal Creator**?

The Pedal creators - key features:

- **Easy to build**, no previous experience required. It's like Lego for musicians.
- **Fast assembly** finish a pedal in less than an hour. Play your favorite record and enjoy the ride along.
- **100% mistake-proof**. Even my grandma can build one while she cooks.
- **Build** your own boutique pedal. Experiment with different values and make the **pedal you always dreamed of**.
- Easy to scale. **Turn your passion into a money-making machine**.

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Introduction

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 would 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 an entirely new circuit design, and holy moly, it delivers great rock n roll tones. From the 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

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

BTW, Load is volume, Booty is bass, Sizzle is a high end, and Dirty, the amount of gain and the moist/gushing toggle will let it go nuts for singing leads.

Bill of materials

Capacitors

Part	Value
C6	470n
C10	1u
C11	470n
C13	470n
C15	1u

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

Capacitors		
Qty	Value	Parts
2	1u	C10, C15
3	470n	C6, C11, C13

Electrolytics 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

Components Recommendations

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

This board has been tested using Film box capacitors for most of the values over 1nf and ceramics discs for those 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 exclusive regarding this project. It doesn't include all the hardware like the 3PDT bypass switch, audio/dc jacks, enclosure, etc.

Build Notes

If this is one of your first projects, I recommend you to take a look at 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

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 the control slug of your 3PDT.

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

Drill Template

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 on an A4 page.

Licensing and Usage

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

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

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

These boards may be used for commercial endeavors in any quantity unless expressly noted. No attribution is necessary, though accreditation or a link back is always much 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 to 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 silkscreen 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 designs with your brand and logo, we could undoubtedly reach an agreement.

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