

Tweed Bassman 59 SMD

Based on:

Fender Bassman pre amp

Effect type:

Pre amp Emulator

Build difficult:

Easy

Amount of parts:

Low, total 27 components

Technology:

Jfet Buffer + pickup simulator in front of a fuzz Silicon Fuzz face

Power consumption:

9V

Enclosure type:

125b

Get your board at:

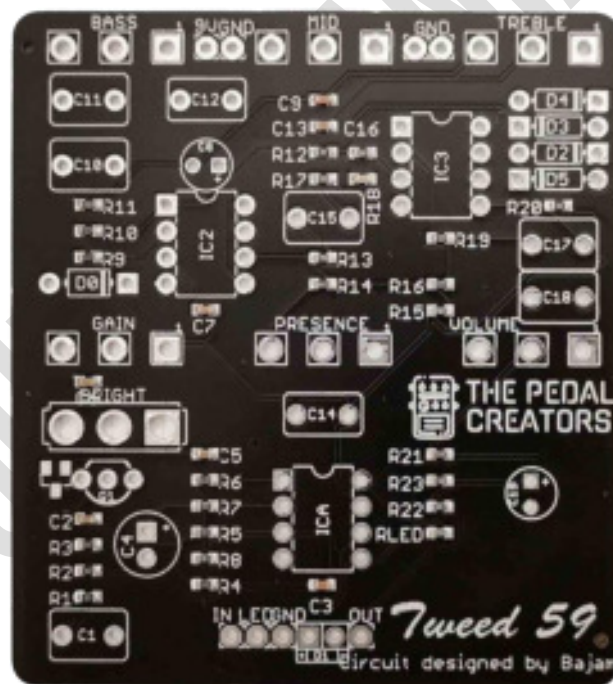
[Tweed Bassman 59 SMD](#)

Get your kit at:

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

Project overview:

The Tweed Bassman 59 is part of a series of preamps in a box emulating the tone of some of the most iconic amplifiers. For this occasion, we have not only the preamp section, but we have also included the tone stack and the power section of this all-time classic.



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**.

Index

1. Project overview
2. About The Pedal Creators, Index
3. Introduction & Controls
4. Bill of materials
5. Shopping list
6. Schematic
7. Components recommendations, Build Notes, Wiring Diagram
8. Drilling Template, Licensing and Usage

Introduction

The Fender 1959 Bassman™ was originally designed (as the name says) to be a Fenders first dedicated Bass Amplifier that delivers a lot volume without getting distorted. Over the year guitar players started to fall in love with it as well because of its massive headroom that provides you with the famous F-cleans and that's one of the reasons why it's being build with a small time out from 1951 till now. Bajaman did a great job on emulation this amplifiers preamp and we made a PCB for you to join the party.

Because the EQ is massive part of the overall tone it's included in the PCB, as well as the power section after it, so prepare yourself cause this little thing can get pretty loud!

Side note 2.5nf are pretty hard to source. You can use a 2.7nf and still have more then just decent sounding emulation of the amp and it works best in the return of a FX loop. But I still had great results to shape clean channel when used in front of my amps.

Controls

- Gain
- Presence
- Bass
- Mids
- Treble
- Volume
- Bright switch

Bill of materials

Capacitors	
Part	Value
C1	1u
C10	1u
C11	1u
C12	560n
C14	680n
C15	1u
C17	1u
C18	1u

Electrolytics Capacitors	
Part	Value
C4	47u
C8	10u
C19	1u

Potentiometers	
Part	Value
BASS	B50K
GAIN	B100K
MID	B1K
PRESENCE	B10K
TREBLE	B10K
VOLUME	B100K

Transistors	
Part	Value
Q1	J201*

IC	
Part	Value
ICA	TL072
IC2	TL062
IC3	TL062

Diodes	
Part	Value
D0	1N5817
D1	3mm LED (your choice)
D2	1N4148
D3	1N4148
D4	1N4148
D5	1N4148

Shopping list

Capacitors		
Qty	Value	Parts
6	1u	C1, C10, C11, C15, C17, C18
1	560n	C12
1	680n	C14

Electrolytics Capacitors		
Qty	Value	Parts
1	10u	C8
1	1u	C19
1	47u	C4

Potentiometers		
Qty	Value	Parts
2	B100K	GAIN, VOLUME
2	B10K	PRESENCE, TREBLE
1	B1K	MID
1	B50K	BASS

IC		
Qty	Value	Parts
2	TL062	IC2, IC3
1	TL072	ICA

Transistors		
Qty	Value	Parts
1	J201*	Q1

Diodes		
Qty	Value	Parts
4	1N4148	D2, D3, D4, D5
1	1N5817	D0
1	3mm LED (your choice)	D1

Switches		
Qty	Value	Parts
1	SPDT ON-ON	Bright

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

Mids control MOD* This board supports possibility of including a Mids control to make this metal machine more versatile. To do so you have to place a jumper in between the pads labeled MIDS on top in between High and Mid pots and replace R27 for a 100k resistor and C16 for 10n capacitor. Bear in mind this mods will alter the overall character of the pedal. For stock version leave the mids pot unpopulated.

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!