

Tweed Drive 59

Based on:

'59 Tweed Overdrive

Effect type:

Vintage preamp overdrive

Build difficult:

Intermediate

Amount of parts:

Average, total 38 components

Technology:

MOSFET transistors

Power consumption:

9V

Enclosure type:

125b

Get your board at:

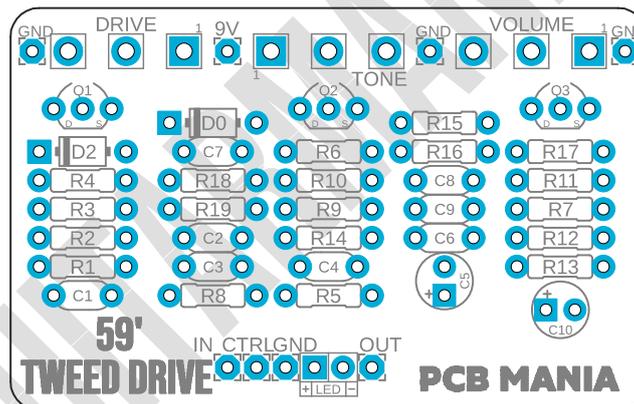
[Tweed Drive 59](#)

Get your kit at:

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

Project overview:

Inspired by Tweed Drive 59, this circuit allows you to have a '59 Fender Bassman amp right on your pedalboard! All those vintage tones at the reach of your hand.



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Introduction

There is a certain satisfaction when you finish building a preamp that allows you to have all the '59 Fender Bassman amplifier's severely saturated classic sounds without spending \$10,000 in the process. Have you ever wanted to hear one of these amplifiers at maximum volume? We recommend first try it halfway!

Every time you hear about a classic, remember that it is on the podium for a reason. In the 1950s, the Bassman was perfect for amplifying a new discovery, the Fender Precision Bass. This straightforward 50-watt rig conceded the bass to hold its own onstage with drums, electric guitars, and piano, the typical instrumentation of the day. Its simplicity, great tone, excellent dispersion, and touch-sensitive dynamics are a true pleasure that won, over the years, the hearts of guitarists too.

Controls

- Drive
- Tone
- Volume

Bill of materials

Resistors	
Part	Value
R1	1m
R2	1m
R3	1m
R4	5k1
R5	470k
R6	1m
R7	1m
R8	1m
R9	270r
R10	5k1
R11	358r
R12	5k1
R13	521k
R14	47k
R15	82k
R16	10k
R17	10k
R18	82r
R19	4k7

Capacitors	
Part	Value
C1	100n
C2	10n
C3	470p
C4	10n
C6	100n
C7	22n
C8	2n2
C9	2n2

Electrolytics Capacitors	
Part	Value
C5	1u
C10	47u

Potentiometers	
Part	Value
DRIVE	5k C
TONE	100k B
VOLUME	100k A

Transistors	
Part	Value
Q1	BS170
Q2	BS170
Q3	BS170

Diodes	
Part	Value
D0	1n5817
D2	1n4739A
LED	3mm Red LED

Shopping list

Resistors		
Qty	Value	Parts
2	10k	R16, R17
6	1m	R1, R2, R3, R6, R7, R8
1	270r	R9
1	358r	R11
1	470k	R5
1	47k	R14
1	4k7	R19
1	521k	R13
3	5k1	R4, R10, R12
1	82k	R15
1	82r	R18

Capacitors		
Qty	Value	Parts
2	100n	C1, C6
2	10n	C2, C4
1	22n	C7
2	2n2	C8, C9
1	470p	C3

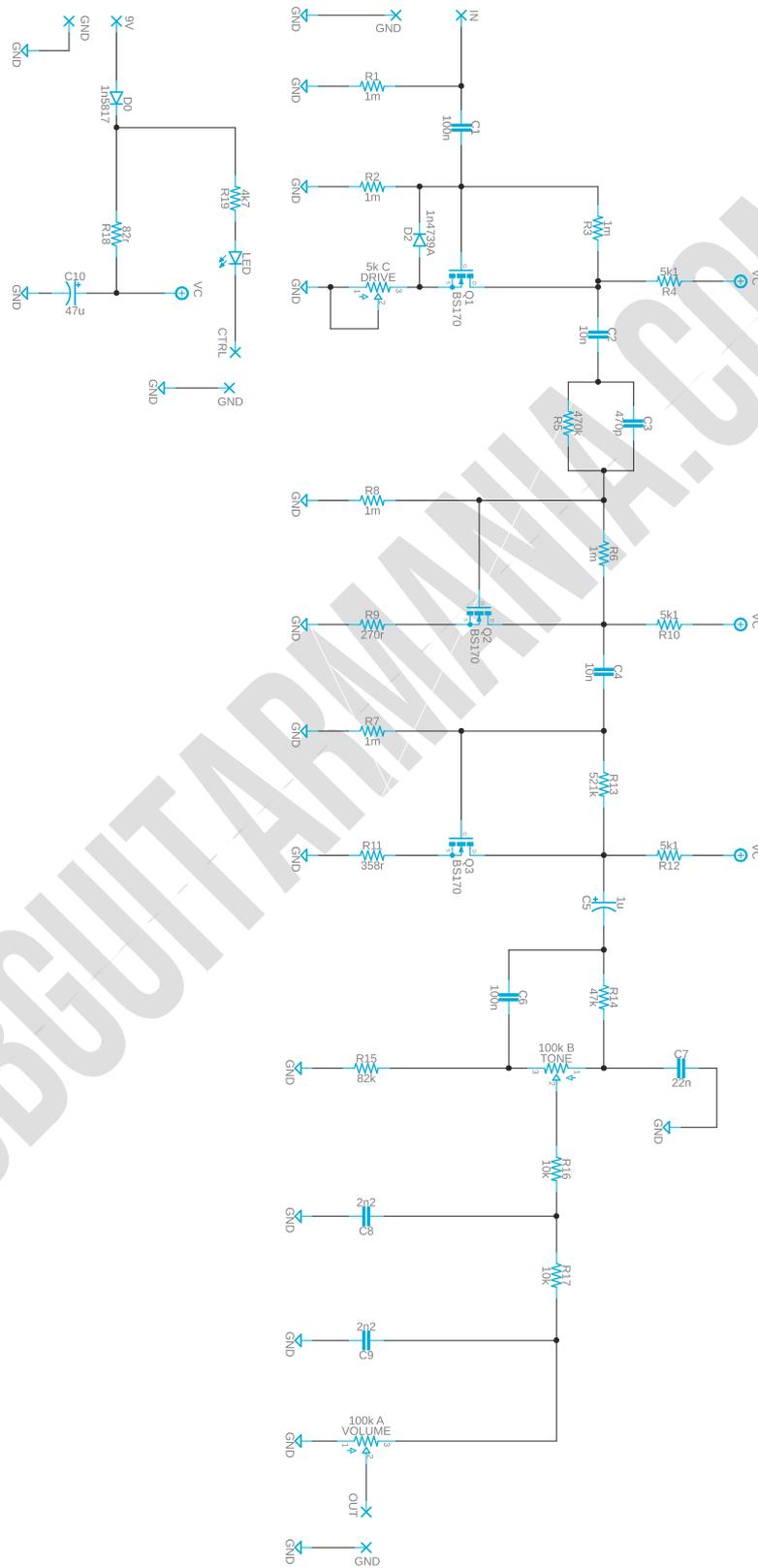
Electrolytics Capacitors		
Qty	Value	Parts
1	1u	C5
1	47u	C10

Potentiometers		
Qty	Value	Parts
1	100k A	VOLUME
1	100k B	TONE
1	5k C	DRIVE

Transistors		
Qty	Value	Parts
3	BS170	Q1, Q2, Q3

Diodes		
Qty	Value	Parts
1	1n4739A	D2
1	1n5817	D0
1	3mm Red LED	LED

Schematic



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!