

# Tweed '57

**Based on:**  
Fender Twin Tweed amp  
**Effect type:**  
Pre amp Emulator  
**Build difficult:**  
Average

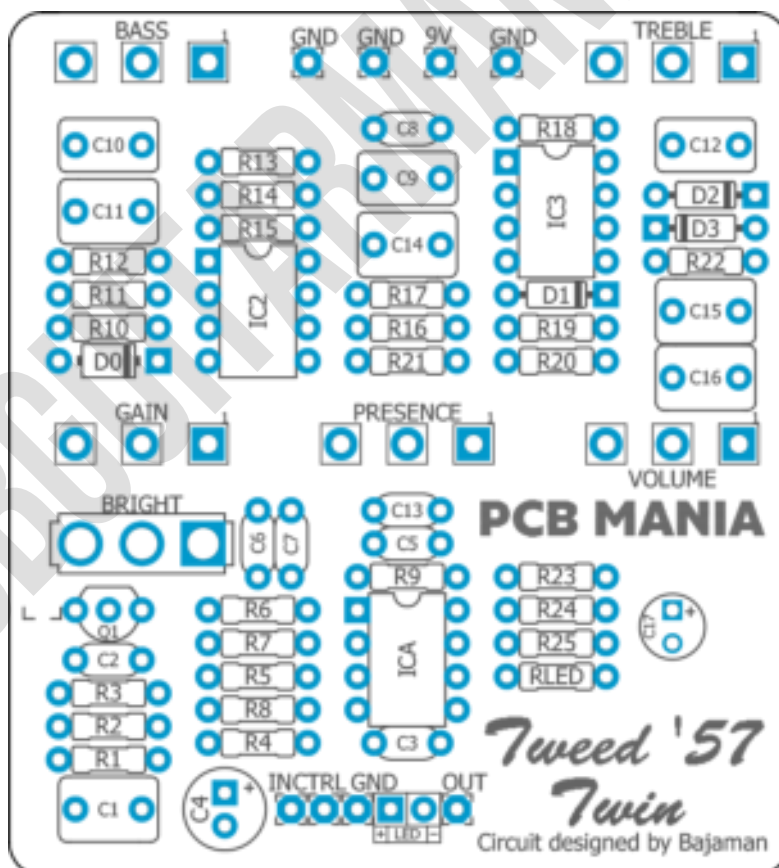
**Amount of parts:**  
Average, total 56 components  
**Technology:**  
Jfet Buffer + pickup simulator in front of a fuzz Silicon Fuzz face  
**Power consumption:**  
9V(9mA)

**Enclosure type:**  
125b  
**Get your board at:**  
[Tweed '57](#)  
**Get your kit at:**  
[Das Musikding \(Europe\)](#)

## Project overview:

The Tweed '57 emulates 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.



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## Introduction

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Not just a good preamp. It's probably THE Fender Tweed 57™ you hearing in your head when you thinking about sparkling clean sounds and what can I say... Here is a Bajaman creation that gives you the most accurate emulation of this legendary tone in a small footprint. After all his designs I have high expecting in his schematics and what can I say... He nailed that one!

Because the EQ is massive part of the overall tone it's included in the pcb.

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

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

# Bill of material

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Resistors	
Part	Value
R1	1M5
R2	1M
R3	100K
R4	1M
R5	1K5
R6	2K7
R7	1K5
R8	3K3
R9	2K2
R10	390r
R11	2K7
R12	2K2
R13	22k
R14	22k
R15	22k
R16	47K
R17	2K2
R18	22K
R19	2K2
R20	100k
R21	6K8
R22	1M
R23	1K
R24	10K
R25	10K
RLED	4K7

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

Switches	
Part	Value
Bright	Spdt on-on

Capacitors	
Part	Value
C1	1u
C2	100n
C3	390p
C5	220n
C6	1n
C7	1n8
C8	2n5
C9	470p
C10	47n
C11	1u
C12	100n
C13	12n
C14	1u
C15	1u
C16	1u

Electrolytics Capacitors	
Part	Value
C4	10u
C17	1u

IC	
Part	Value
IC2	TL062
IC3	TL062
ICA	TL072

Transistors	
Part	Value
Q1	J201

Diodes	
Part	Value
D0	1N5817
D1	1N4148
D2	1N4148
D3	1N4148

# Shopping list

Resistors		
Qty	Value	Parts
1	100K	R3
1	100k	R20
2	10K	R24, R25
1	1K	R23
2	1K5	R5, R7
3	1M	R2, R4, R22
1	1M5	R1
1	22K	R18
3	22k	R13, R14, R15
4	2K2	R9, R12, R17, R19
2	2K7	R6, R11
1	390r	R10
1	3K3	R8
1	47K	R16
1	4K7	RLED
1	6K8	R21

Capacitors		
Qty	Value	Parts
1	100n	C2
1	100n	C12
1	12n	C13
1	1n	C6
1	1n8	C7
5	1u	C1, C11, C14, C15, C16
1	220n	C5
1	2n5	C8
1	390p	C3
1	470p	C9
1	47n	C10

Electrolytics Capacitors		
Qty	Value	Parts
1	10u	C4
1	1u	C17

Potentiometers		
Qty	Value	Parts
2	B100K	GAIN, VOLUME
2	B10K	PRESENCE, TREBLE
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
3	1N4148	D1, D2, D3
1	1N5817	D0

# Components Recommendations

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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.

**J201\* In this project you can choose either use the SMD version of this transistor or the standard through hole. IT'S STRONGLY RECOMMENDED TO USE THE SMD DUE THE AMMOUNT OF COUNTERFEITS OF THE THROUGH HOLE VERSION.**

## 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!